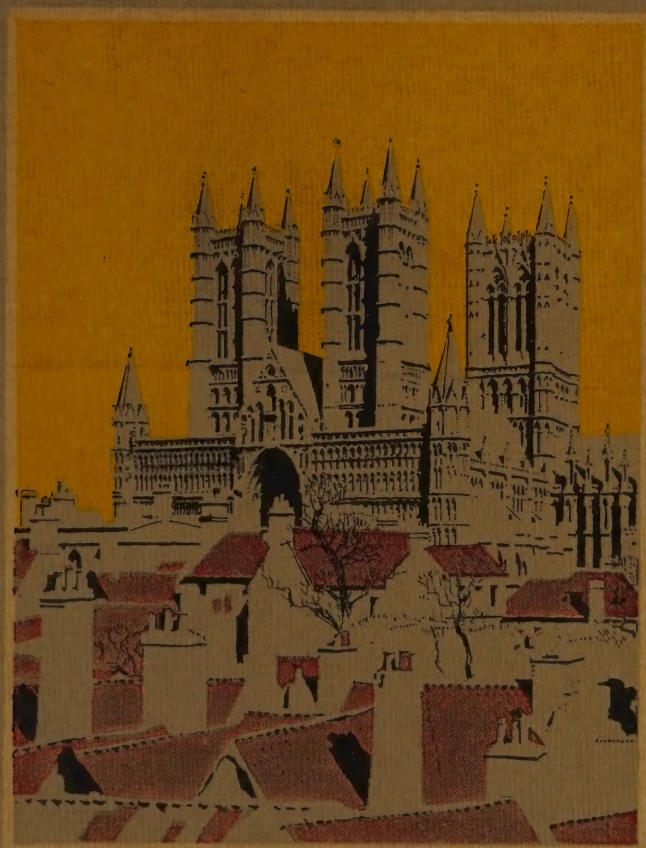


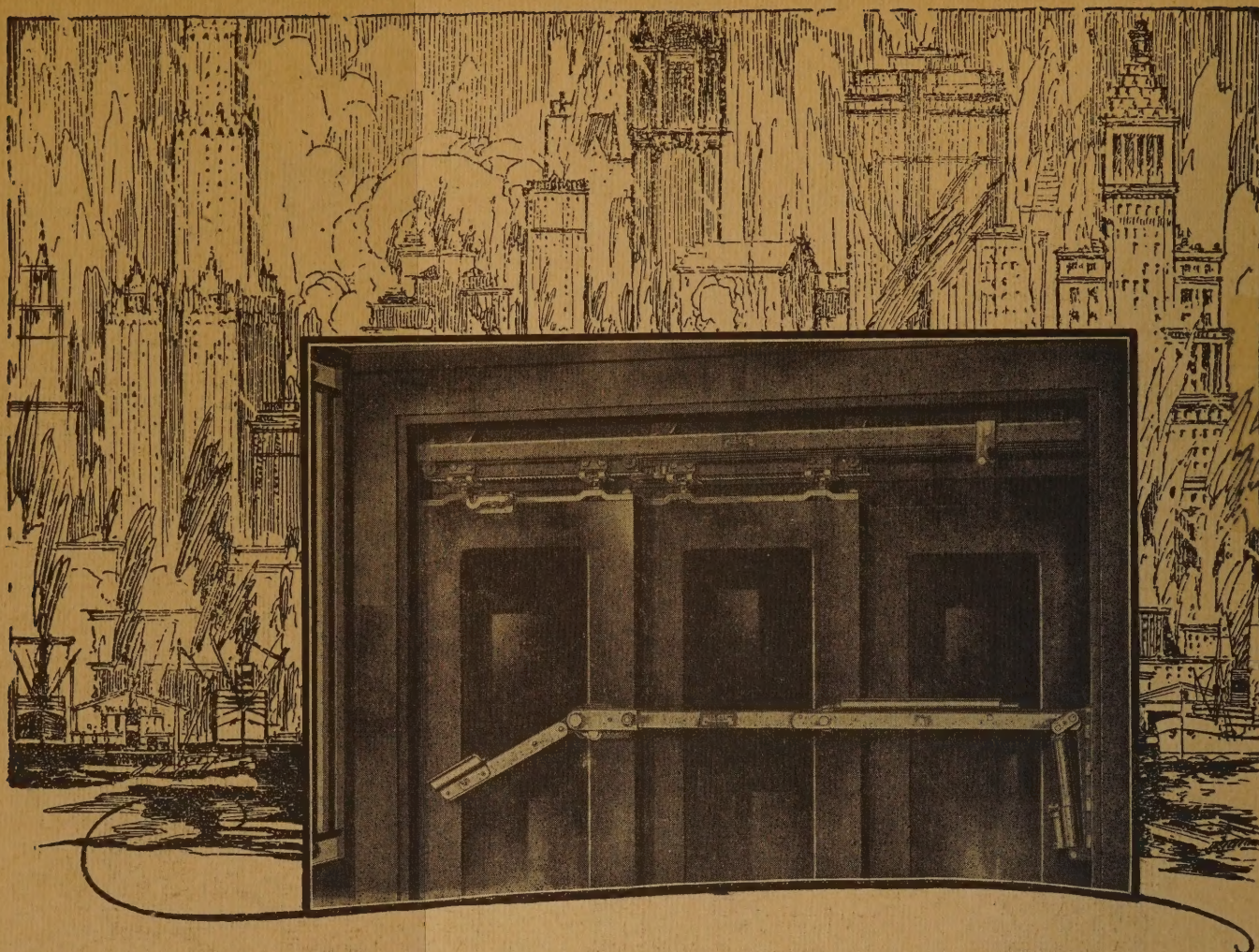
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GOODWIN HOUSE
SYOSSET

THE ARCHITECTURAL FORUM



JANUARY 1926



Up and Down and Out in Safety

Positive action, speed and silence—three outstanding features of R-W *Ideal* Elevator Door Hardware. The operating control is perfect—no catching or resistance. Elevator door action must be *fast*, and a yawning shaft means it must be *sure*. If further equipped with R-W *Ideal* electric or mechanical interlock, elevator doors cannot be left open. All over the country notable buildings have these installations. R-W *Ideal* Elevator Door Hardware includes door closers and checks—hangers for single-speed, two-speed and three-speed doors, for doors in pairs, operating from both sides, and for combination swing-out doors.



"Quality leaves
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The Keynote of All R-W Products

R-W *Ideal* Elevator Door Hardware, so widely adopted, maintains the standard of all R-W products. The same advanced type of construction marks all. House, barn, fire, industrial and garage door hangers give to doorways a service impossible without them.

Write or consult any of the R-W branches listed below or the Factory Engineering Department on any problem you have to insure the right kind of doorway or window equipment. The service is free, and is helpful to the last degree.

Richards-Wilcox Mfg. Co.

"A Hanger for any Door that Slides."

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Montreal • RICHARDS-WILCOX CANADIAN CO., LTD., LONDON, ONT. • Winnipeg

Serving the Needs of EVERY HOME SEEKER

Structures that are Fire-Safe. Economical to Erect.
Comfortable to Live in. Inexpensive to Maintain.

NATCO HOLLOW BUILDING TILE

TAKEN together these Natco books constitute a veritable encyclopedia on modern fire proof construction. Unquestionably they should be in every architect's files for they tell—in your own technical language *where to use Hollow Tile; when to use it and how to specify it.*

No pretty pictures—no so called “selling talk”—just hard boiled facts that every architect wants.

Just ask us to send you the Natco Bulletins—they're free, of course.

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Natco Double Shell Load Bearing Tile

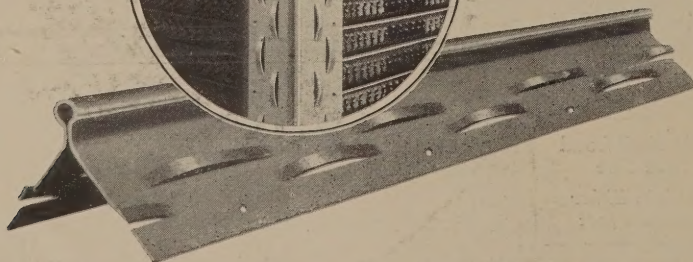
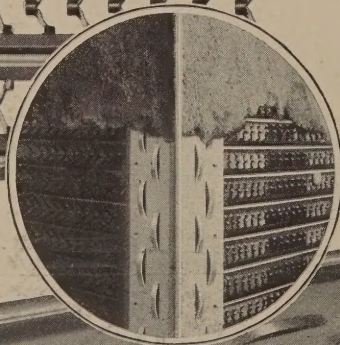
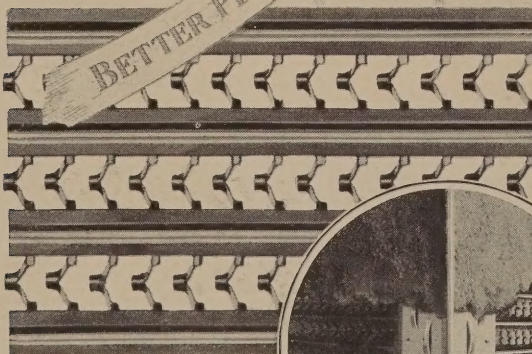
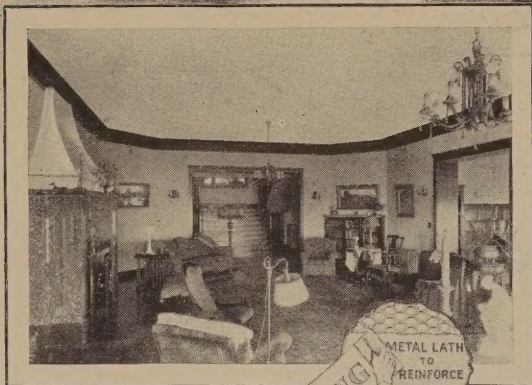
For Stucco exteriors, Scored so that interior plaster and exterior stucco are applied directly to the faces of the tile.

Natco Double Shell Load Bearing Face Tile

*A Complete Unit, Either
combed or texture face*

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The Perfect Base for Plaster/



THE fine effects of plastered walls and ceilings are best preserved from ugly cracking and unsightly streaking by the use of Truscon 1-A Hy-Rib Metal Lath. This perfect plaster base has a patented key that holds the plaster securely and provides the utmost resistance to cracking. Its rigidity assures straight and true surfaces. Besides this, Truscon 1-A Hy-Rib Metal Lath is the most economical metal lath that a plasterer can use owing to the savings he makes in labor and material. Specify Truscon 1-A Hy-Rib Metal Lath to insure all round satisfaction.

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METAL LATH

Raymond

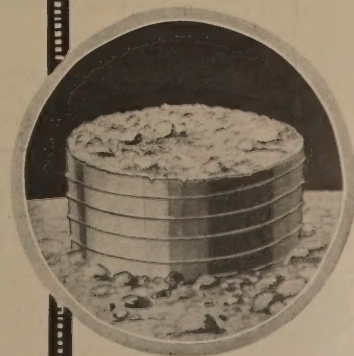


Every pile a perfect pile . . .
That is the assured result of
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in the ground to serve as a pro-
tective form.

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*"A Form for Every Pile—
A Pile for Every Purpose"*



84% Efficiency
—by burning OIL in

KEWANEE

Steel Boilers

These Kewanee features make for efficient burning of oil

Plenty of mixing space

Oil must be burned in a spacious firebox, so that the oil will have room to properly mix with enough air for combustion. *Kewanee Boilers have always been built with spacious fireboxes.*

Large unbroken disengaging areas

Burning oil produces very high temperatures: Hence the boiler must have a water content large enough to absorb the heat, and a large unbroken disengaging area so that steam may be released without undue disturbance of the water.

Large unbroken disengaging areas and unusually ample water space have been features of Kewanee Boilers since the first one was built.

Great Strength

Sudden changes in temperatures due to burning oil call for great boiler strength. **The maximum known strength in boilers can be obtained only by that riveted steel construction found in Kewanee Boilers.**

Latest tests made with *Oil Fired* Kewanee Boilers show efficiencies as high as 84% plus—the lowest efficiency recorded being 79.5%. 75% efficiency is considerably above the average obtained by most low pressure heating boilers. So, **once again Kewanee demonstrates its heat-making economy whether coal or oil is used.**

Oil is nothing more than *liquid coal*. Hence a boiler properly designed to burn coal efficiently will burn oil with equally good results.

Play safe: You can't go wrong when you specify and install the boiler that has stood first in dependability and fuel saving ability for 35 years.

*Engineers reports of the tests mentioned
above will be mailed to any one interested*

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MEMBER OF



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STEEL HEATING BOILERS, RADIATORS, WATER HEATERS, TANKS AND WATER HEATING GARBAGE BURNERS



The Logic of Specifying Plasta-Saver

COST is a big factor in modern construction. The fact that the architect specifies the $\frac{1}{8}$ " Rib Lath—PLASTA-SAVER—betokens that he has his finger ever on the pulse of building progress and can meet this exigency.

He specifies this economical yet most efficient steel plastering base and reinforcing for all work wherein costs must be figured close.

In so doing, he is giving his client *not* a "cheap" or skimpy job, but an unusually durable and fire retardant type of *reinforced* plaster construction—in no way comparable to the grade of work obtainable when ordinary, combustible lath is used.

May we send your specification writer a sample of this very satisfactory PLASTA-SAVER lath, also specifications?

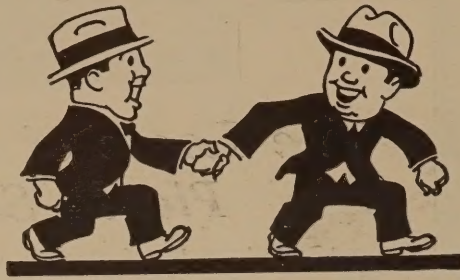
NORTH WESTERN
EXPANDED METAL CO.

1234 OLD COLONY BUILDING
CHICAGO



ST. MONICA CHURCH, Santa Monica, Cal.

Architect, Mr. A. C. Martin, Los Angeles.



Hand in Hand advertising and lower sales cost

It is to the buyer's interest to know that goods are *sold economically* for he pays the cost of selling just as he pays for the cost of manufacturing.

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The seller who clings to antiquated, expensive methods of selling is no more entitled to patronage than one who runs an out-of-date factory.

Machinery has cut costs and standardized products in manufacturing and the *machinery of advertising* is accomplishing similar benefits in selling, for advertising in publications such as this one, is not an added expense, but an improved means of communication that takes the place of slower and more costly methods.

These are demonstrated facts and thinking buyers are recognizing the advantage to them of encouraging progressive, economical *sales* methods, such as have been adopted by the companies represented in the advertising pages of this journal.

The advertising these companies are doing not only cuts the cost of selling, but it increases production volume, standardizes quality, and is a guarantee of good faith.

Write us about anything you desire to know about business papers or the fields they cover.

The
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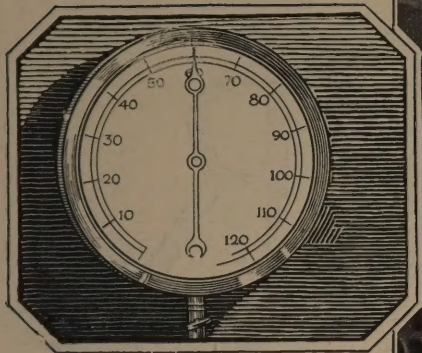
"Member of The Associated Business Papers, Inc." means proven circulations PLUS the highest standards in all other departments.

This publication is a member of the A. B. P.

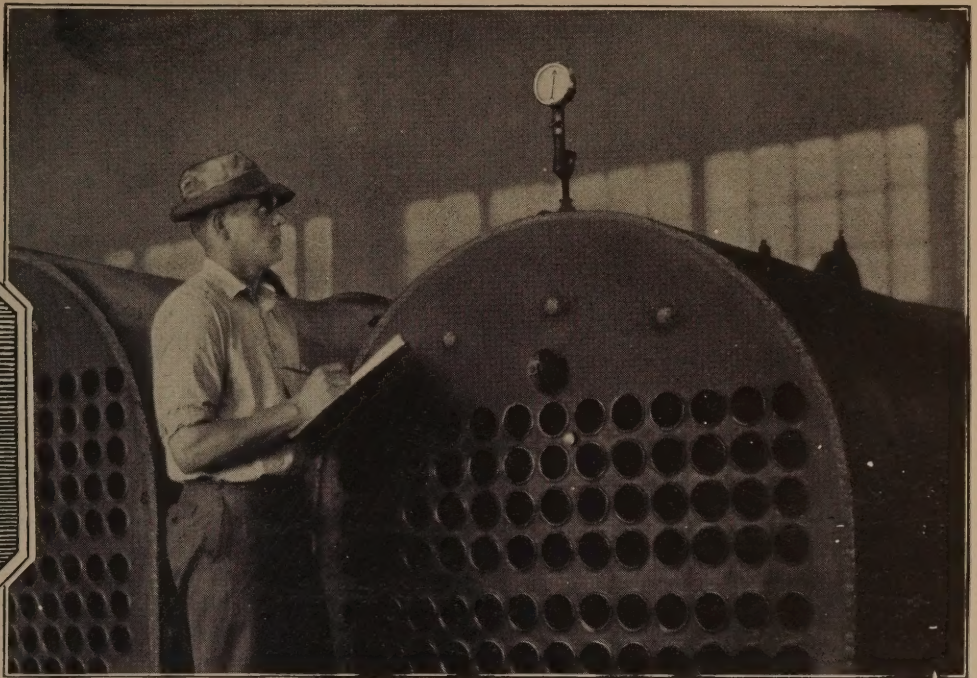
HEGGIE-SIMPLEX

[FORMERLY SIMPLEX]

ELECTRIC-WELDED STEEL BOILERS



Although working pressures never exceed 15 pounds, all Heggie-Simplex Boilers are tested at 60 pounds.



Built to A. S. M. E. Standards—*plus*

The Heggie-Simplex Boiler combines in one portable, electric-welded steel unit all the recognized advantages of both firebox and return tubular, double pass boilers. It has four distinctive features of fundamental importance:

1. Extra large firebox and direct heating surface.
2. Secondary combustion chamber to provide ample room for complete combustion before entering flues.
3. "Rear-front-rear" passage for the gases.
4. A single, unimpeded, freely circulating body of water.

Made in both smokeless and direct draft types and in a complete range of sizes for bungalows, residences and all larger installations.

HEGGIE-SIMPLEX Boilers are built to comply strictly with the A. S. M. E. code; but at various points Heggie-Simplex standards are higher.

The code permits the use of 1/4 in. plate in portions of small size low pressure boilers. The lighter plates in even the smallest Heggie-Simplex are 5/16 in. thick—and at practically every point all sizes are made of heavier steel than is required. Every piece of plate is *firebox* steel—because *firebox* is the only quality the mills will guarantee to comply with A. S. M. E. standards.

To code requirements governing welding, Heggie-Simplex has added standards limiting the rate to that at which perfect fusion is assured. The footage of weld per hour is only one-fourth that commonly produced. But when put to hydrostatic test, Heggie-Simplex Boilers prove perfect, without leak or defect.

Write for important new catalog with complete data.

HEGGIE-SIMPLEX BOILER COMPANY, Joliet, Illinois

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Just look up "Heggie-Simplex Boiler Co." in the phone book in any of the above cities for representative's number and address

TO HELP YOU PLAN PLASTER INTERIORS



A New Book—

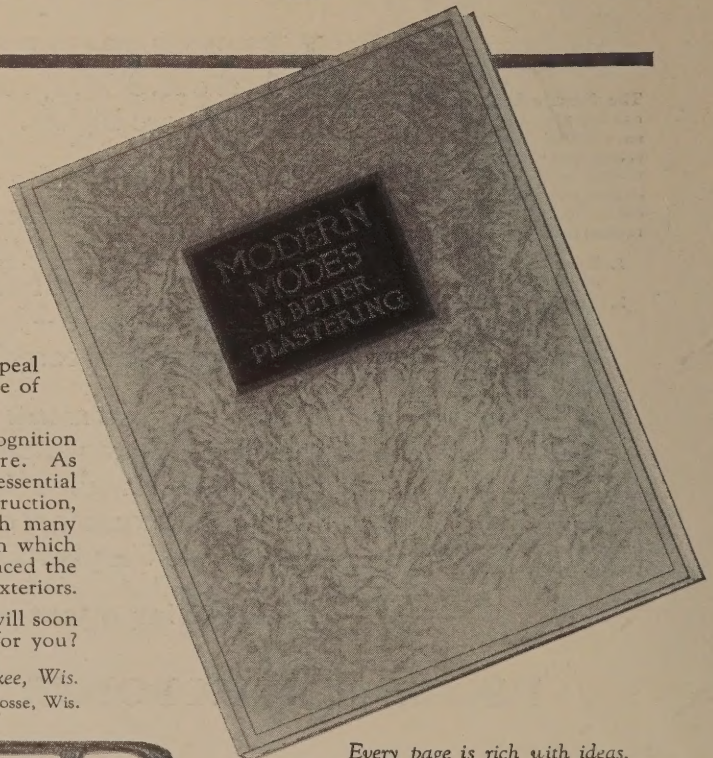
"Modern Modes in Better Plastering"

YOU will cherish this new Book as much for its appeal to your aesthetic sense as for the practical value of the data it contains.

Period-textured Plastering is now accorded due recognition as a great Renaissance in American Architecture. As manufacturers of metal lath and allied products essential to Better Plastering and firesafe, crackproof construction, it has been our privilege to come in contact with many fine examples of modern homes and buildings in which the new art of plastic decoration has greatly enhanced the beauty as well as the permanence of interiors and exteriors.

A handsomely bound, de-luxe edition of this Book will soon be ready for distribution. Shall we reserve a copy for you?

MILWAUKEE CORRUGATING CO., Milwaukee, Wis.
Chicago, Ill. Kansas City, Mo. La Crosse, Wis.



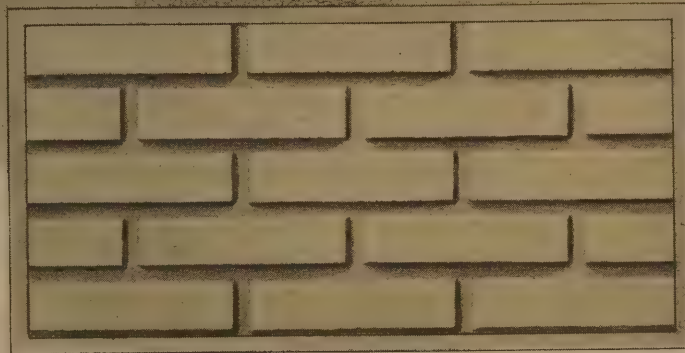
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PRODUCTS ESSENTIAL to BETTER PLASTERING

Every page is rich with ideas.
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at once for complimentary copy.

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Worthy to rank with "Bradford Reds"



To better serve the needs of architects, and to meet the vogue for light colored brick, we announce the early completion of the most modern Face Brick manufacturing plant in America, located at Summerville, Pennsylvania.

It is fitting that the company which was the pioneer in the successful application of the Tunnel Kiln principle of burning in the Face Brick industry, and the manufacturers of the famous "BRADFORD REDS",

should broaden its manufacturing scope to embrace gray and buff Face Brick.

The new plant which is a model among Face Brick plants, will produce "SUMMER GRAYS" in clear colors, light or dark shades, in four types including Smooth Dry Press, Smooth Wire Cut, Vertical Rug and Horizontal Matt textures.

Thirty-three years' experience in the manufacture of Face Brick is our guarantee of quality.

You can rely upon the Hanley Ceramics Company to be serving architects just as surely and effectively in 1936 as we are now serving them in 1926.

May we serve You?

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Offices, No. 2 Main Street, Bradford, Pa.
Plants at Bradford, Lewis Run, Summerville
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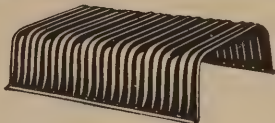


FIREPROOF BUILDING PRODUCTS

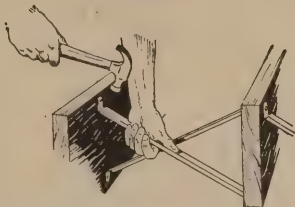
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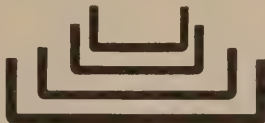
GF Steel Joists



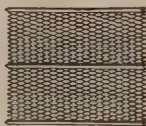
GF Steel Tile



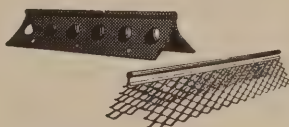
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Also: GF Expanded Metal, GF Key Lath, GF Steel Sash, Basement and Casement Windows, GF Lintels, GF Industrial Steel Doors, Concrete Reinforcement, Wire Mesh and GF Waterproofing Compounds.

THE GENERAL FIREPROOFING BUILDING PRODUCTS, Youngstown, Ohio

Send me a copy of the GF Fireproofing Handbook which gives complete data on products shown here.

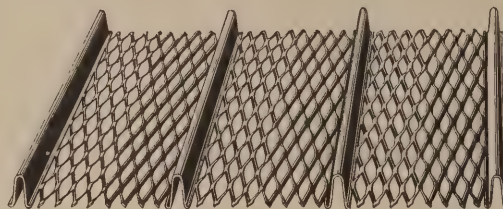
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Address AJ



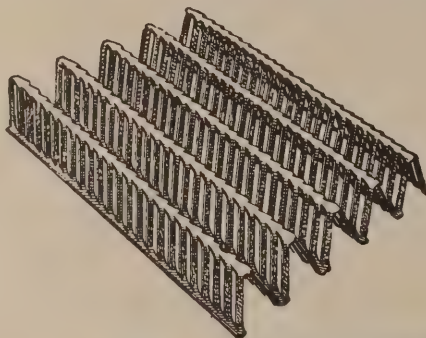
THE walls and ceilings of the homes and other buildings you design will be safe against fire and cracking if you specify GF Herringbone Metal Lath. It's the only ARMCO Metal Lath, the finest base for plaster.

GF Herringbone Rigid Metal Lath



EVERY building you design calls for roofs and floors. You can give your client the most satisfactory, economical and fire safe roof and floor construction by specifying GF Self-Sentering. It combines the functions of forms and reinforcing.

GF Self-Sentering A Combined Form and Reinforcement



GF Trussit is a superior reinforcement for solid partitions. In homes, garages, factories—anywhere that a partition of durability is needed, specify GF Trussit. It saves floor space, is fire safe and offers a very economical reinforced concrete construction.

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AMERICA NEEDS MORE GARAGES IN HER CITIES

Vertical Transportation

Cost-free vertical transportation is the keystone of success in the operation of a multi-floor garage.

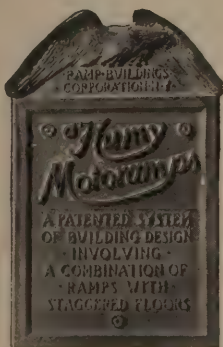
The elimination of the big items of freight elevator upkeep, power and attendance costs has put the city garage in a leading position as to earning power. Properly located and efficiently managed, a down-town garage is a better paying investment than an office or apartment structure.

All this has been made possible by d'Humy Motoramps — for they alone combine the means of cost-free vertical transportation with an economy of floor space comparable with elevators. Floor space economy is vital, for on it depends the number of cars which can be housed, and which directly gauge the building's gross income.

Garages are the need of the hour to relieve the mid-city parking congestion. Sell the idea!

And as floor-plan layout is the vital factor, we urge you to permit us to place our specialized skill at your disposal. We will gladly sketch-plan the most efficient storage layouts for any given plot without obligating you in any degree. If our suggestions are eventually incorporated in your design a charge is made to the owner.

In considering the possibilities of the garage business, and discussing it with possible clients, it will be helpful for you to have: "Building Garages for Profitable Operation." A copy will be sent on request. Ask for it as Catalog F.



RAMP BUILDINGS CORPORATION

21 East 40th Street

New York, N. Y.

GARAGE ENGINEERS

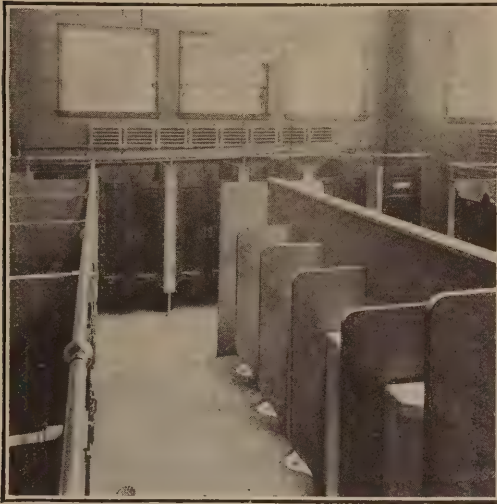
CONSULTANTS ON PROMOTION AND GARAGE OPERATION

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Sanitary? Yes! Permanent, Too



Louisiana Avenue Comfort Station, Baltimore, Md.; Alberene Stone Throughout.

FOR sanitary work—toilets, urinals, and the like—no material even approaches Alberene Stone for all-around excellence. It is the best possible investment for such service.

Non-absorbent and non-staining—resistant to acids and alkalis—smooth and non-scaling and easily cleaned—easily machined without chipping, and assembled with tongue-and-groove joints with waterproof cement in absolutely sanitary structures, usually without any exposed metal—time-proof in material and construction—these are the qualities you get in Alberene Stone Sanitary Work.

Let us send you the Catalog and Detail Sheets of this, and other, Alberene Stone applications.

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STANDARD ALSO FOR LABORATORY EQUIPMENT ELECTRICAL CONSTRUCTION, LAUNDRY TUBS AND SINKS



BUTLER ART INSTITUTE, YOUNGSTOWN, OHIO
McKim, Mead & White, Architects

The durability of Georgia Marble added to its other virtues makes it the first choice of many prominent architectural offices.

THE GEORGIA MARBLE COMPANY
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NEW YORK ATLANTA CHICAGO
1328 Broadway 804 Bona Allen Bldg. 456 Monadnock Bldg.

Galvanized After Weaving

Electric-Weld Railings and Gates

Anchor Fences

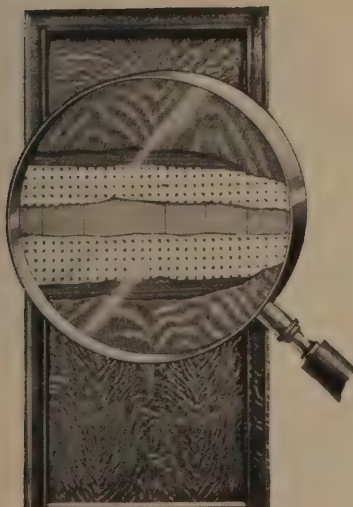
ANCHOR POST IRON WORKS, 50 CHURCH ST., NEW YORK, N. Y.
(After Feb. 1, 1926:—9 East 38th St., New York, N. Y.)
BRANCH OFFICES IN PRINCIPAL CITIES



Pyrono, fireproof door— Sentinel of the guest-room

UPON the host in hotel, apartment or home there is always the responsibility for protecting guests from fire hazard. All concerned rest easier when Pyrono stands guard. To the visitor, Pyrono appears much like the doors in his own home, handsome and unobtrusive—but its core is fireproof.

Pyrono Doors and Trim are built of the finest cabinet-wood veneers applied over a non-resinous, laminated core. Between the veneer and the core, however, is placed an asbestos sheathing which is mechanically bonded to the core.



This shows Pyrono construction magnified—the asbestos sheathing indented into the core and the cross-banded surface veneers applied over it

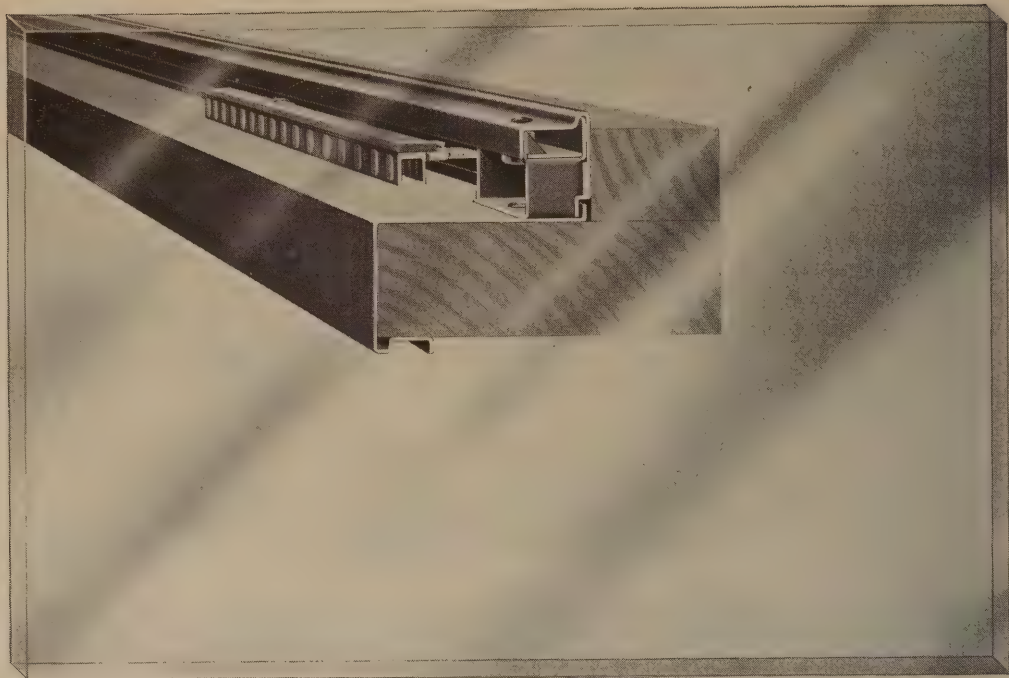
The result is fireproof construction, presenting at the same time all the attractiveness of the most beautiful woodwork. Pyrono Doors can be fitted with smokeproof and practically soundproof tightness because under extremes of temperature they do not expand, contract, warp, buckle nor bind in their frames. No danger of being trapped by jammed doors.

The use of Pyrono fireproof doors means economy, beauty and lasting construction. Let our representatives prove this to you.

The Compound and Pyrono Door Co.
ST. JOSEPH, MICHIGAN

Py-ro-no
TRADE MARK
REGISTERED

THE WOOD VENEERED DOOR WITH THE FIREPROOF CORE



View of the patented self-adjusting setting block with outside moulding removed.

Zouri Indirect Key.

*Behind a broad expanse of plate glass stands Zouri
— protection for both architect and merchant.*

BUILT into every Zouri Store-front gutter are two self-adjusting setting blocks which automatically perform part of the work formerly done by the setter and assure accurate fit on first placement.

A sole leather cushion receives the glass and moves with it up to the rabbet, aided by springs.



Useful detail sheets and data book

This handbook has been written for architects, contractors and builders. It deals primarily with construction and gives plans and diagrams showing best approved methods of window and display space arrangement. The detail drawings will be welcomed by specification writers. A word from you will bring them—promptly.

ZOURI KEY-SET STORE FRONT CONSTRUCTION



-Set Store Fronts

The glass does not, therefore, have to be pried into place, and leaves no open spaces to be filled in with putty—a makeshift sometimes employed.

This feature, and Zouri Key-Set construction, are conveniences that have helped Zouri build up the largest body of distributors in the field.

Zouri is approved by the Underwriters. This fact, and its beauty, have won increasing favor with architects and their merchant clients.

Zouri Drawn Metals Company

Factory and General Offices

1608 East End Avenue, Chicago Heights, Illinois

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LISTED BY THE UNDERWRITERS LABORATORIES

BUILD THE NATION SECURELY WITH
INDIANA LIMESTONE
The NATION'S BUILDING STONE



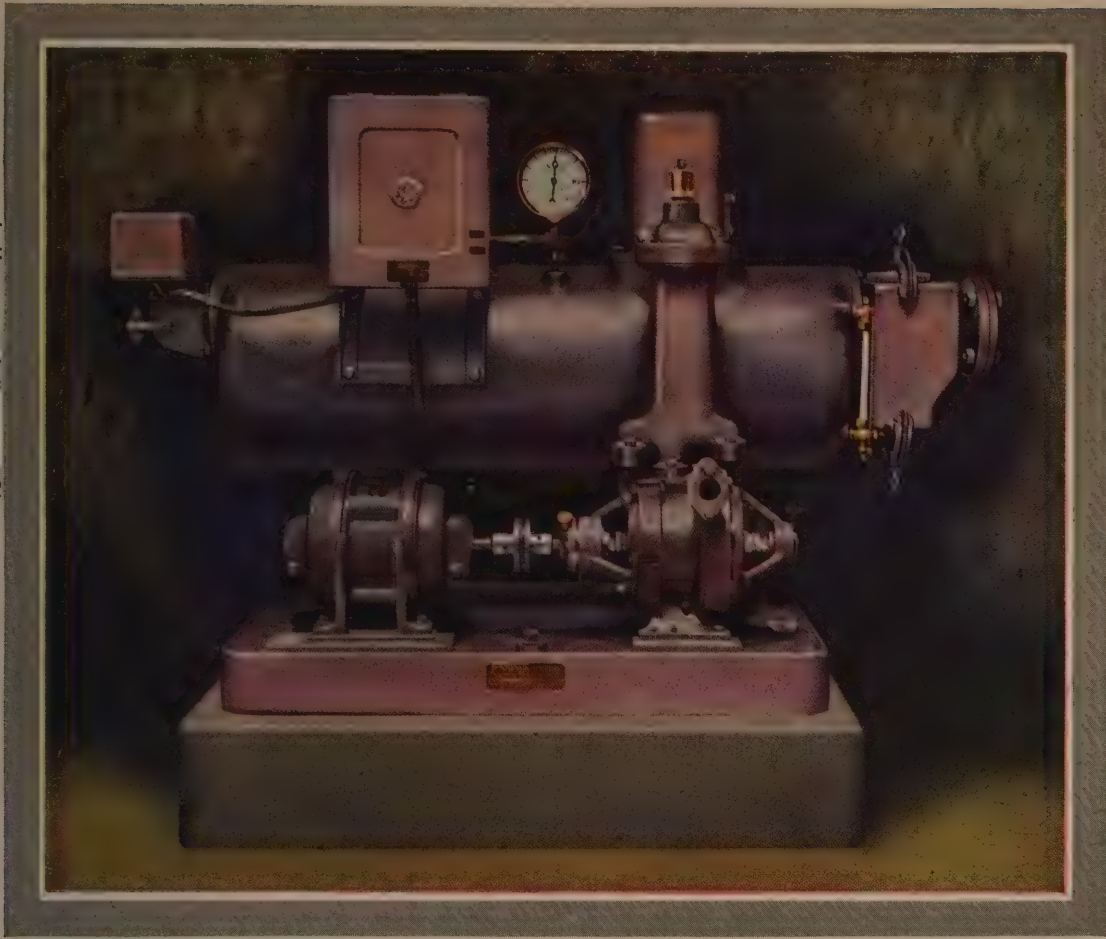
INDIANA Limestone statuary group over the Aldwych entrance of Bush House, the largest American office building in London, England. The figures symbolize Anglo-American friendship. Miss Malvina Hoffman, sculptress.

WHEN Indiana Limestone was chosen for the statuary group illustrated, a British expert questioned whether it long would stand the ravages of the climate and mentioned the matter to Irving T. Bush, head of the Bush Company.

"How long do you think it will withstand the London atmosphere?" he asked.

"Oh, 200 or 300 years," Mr. Bush replied.

"Make a note in our diary," he said to his secretary, "that in 200 years time I must come to London to see how this sculpture is getting along."



As efficient after many years service
as when first installed



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Efficiency of a Jennings Hytor Heating Pump is as high one season as another, - it is the same after many years service as when first installed.

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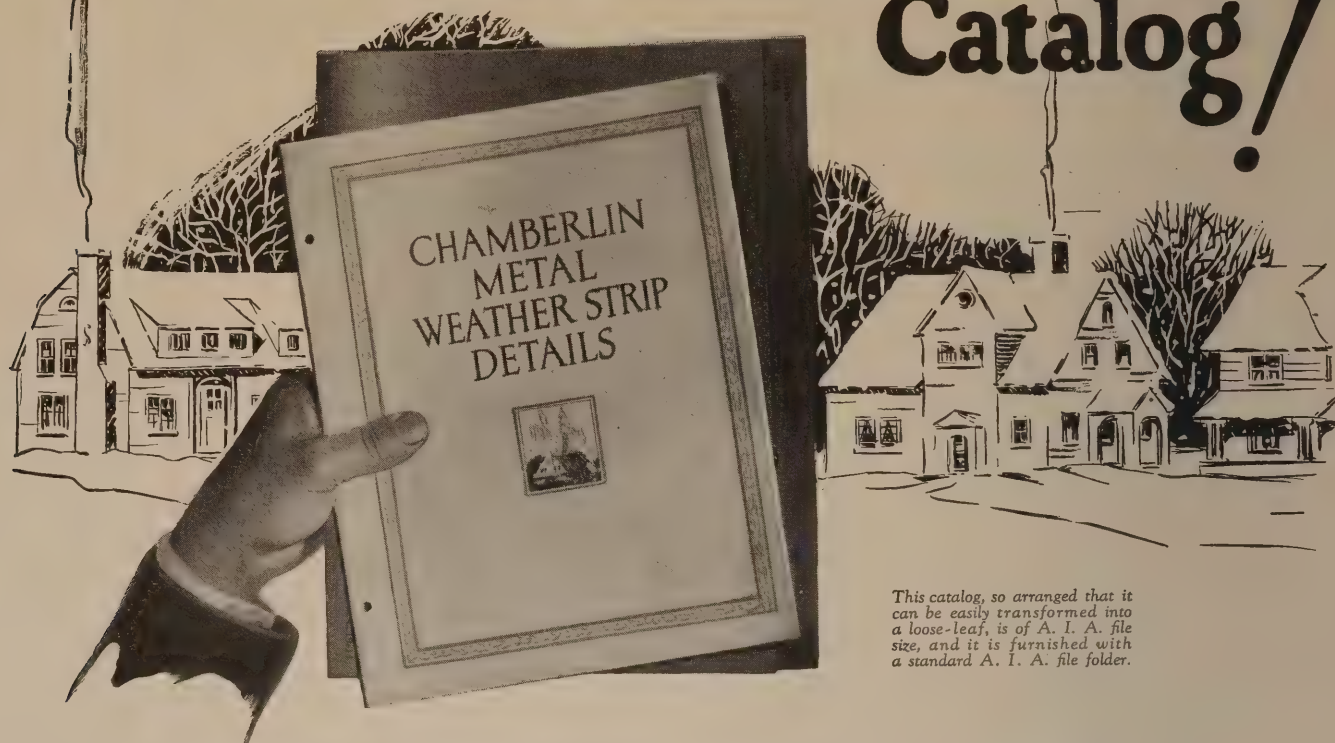
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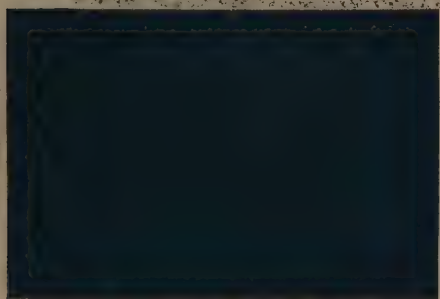
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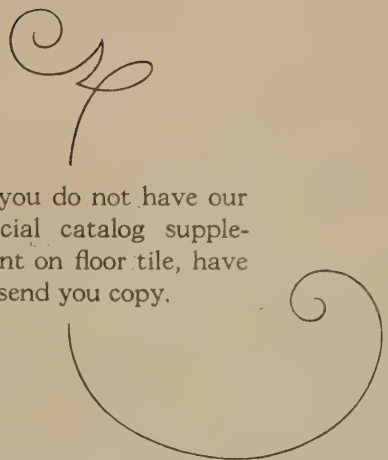
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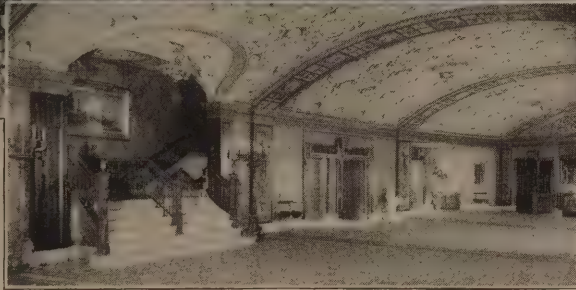
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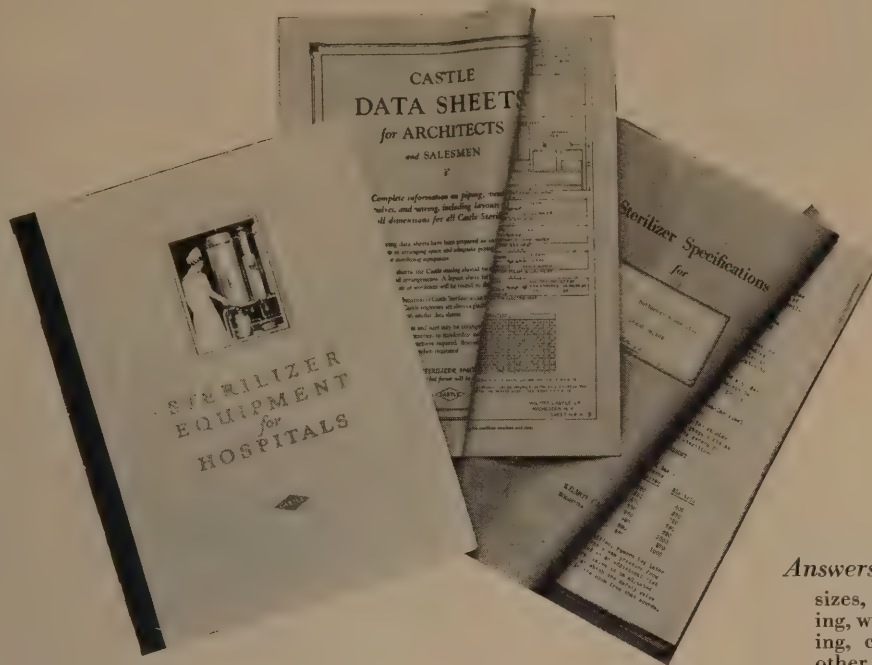
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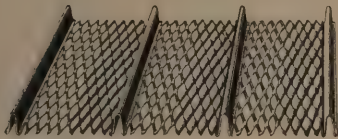


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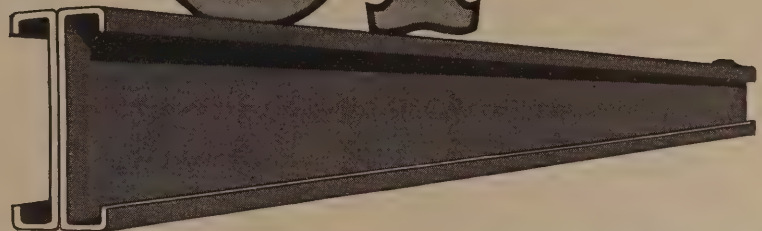
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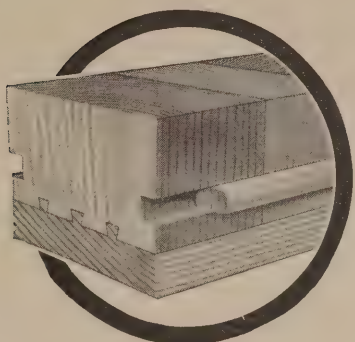
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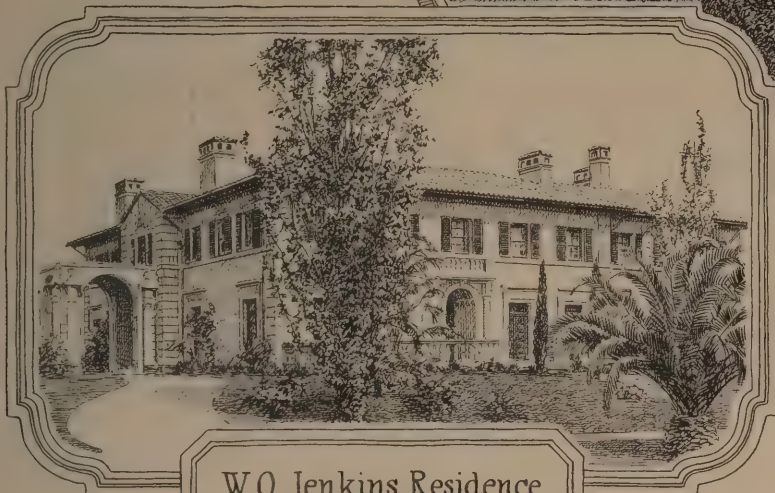
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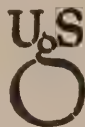
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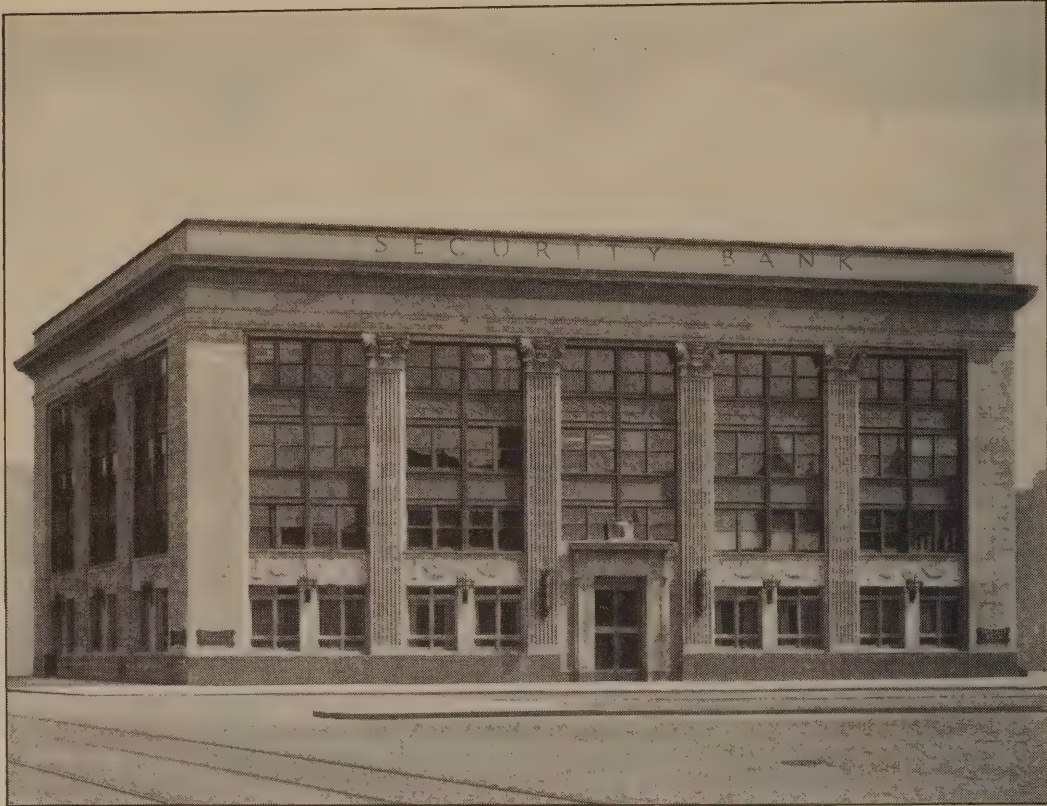
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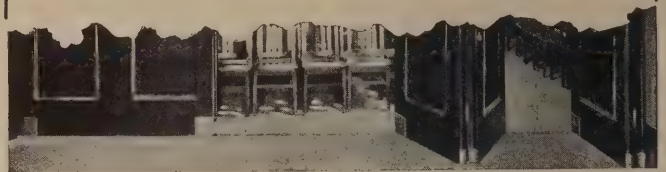
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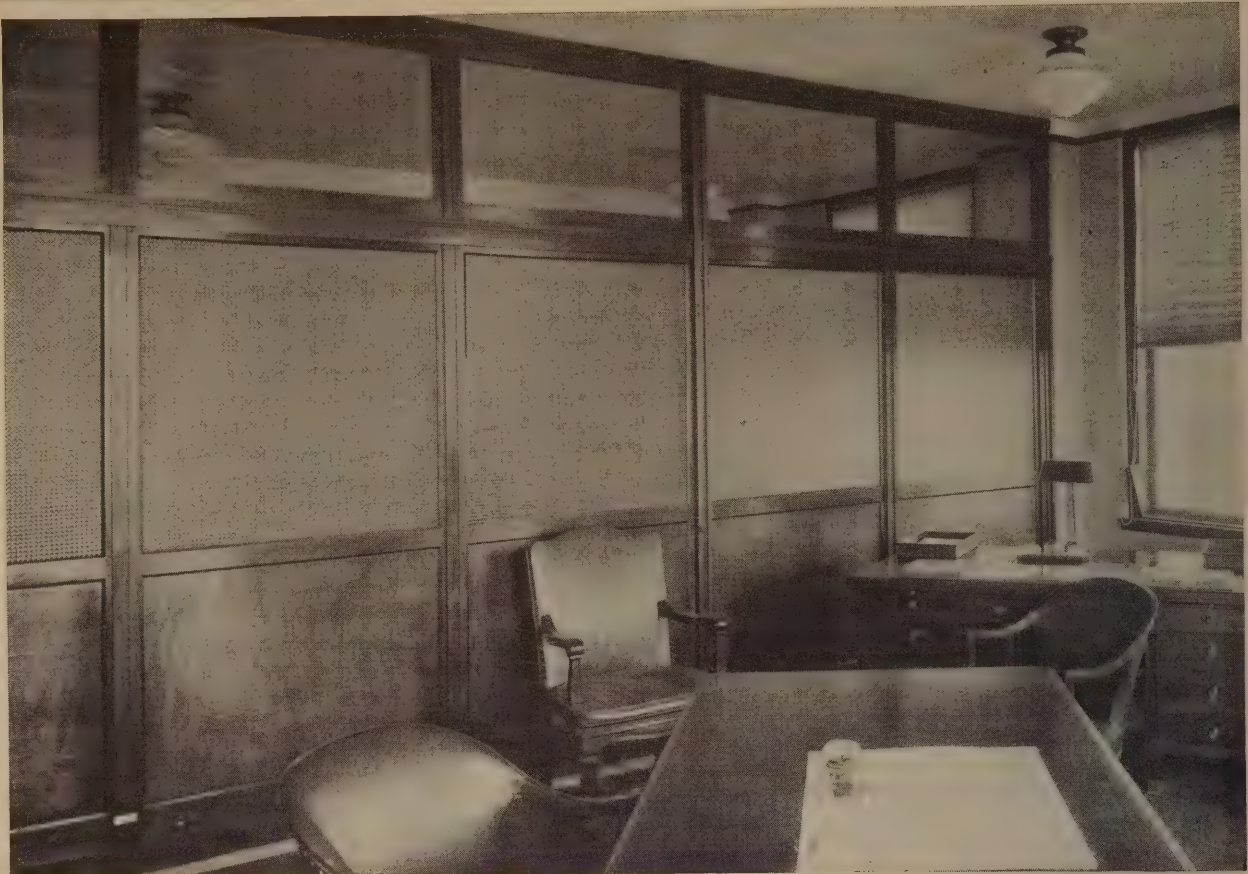
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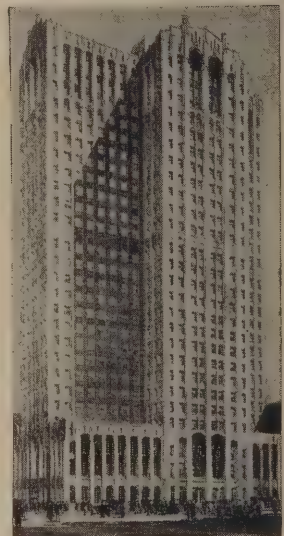
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BOOK DEPARTMENT

The Relations Between Architecture, Building and Craftsmanship

A Review by WALTER F. WHEELER

IT is often difficult to explain to those interested the exact difference between architecture and engineering, and even more so perhaps to point out the dividing line between architecture and building. Much modern architecture, indeed all architecture on a large scale, involves problems which are those of engineering, and when actual construction has been begun, actual engineering must frequently prepare the way, and indeed perform a large part of the work done before the structure becomes a completed building. In addition to this confused and complicated functioning of architecture in its relation to engineering, there exists the separate confusion between architecture and building, made more complicated perhaps by reason of the fact that operating in the field today there are many concerns describing themselves as "Architects and Builders," their importance as builders probably overshadowing their standing as architects, so that it is difficult for the public to define and keep separate the two parts of what is really a dual function.

In addition to all this there exists the fact that during the history of building,—a history which extends back to the beginning,—the designing and planning of structures, the superintendence of their erection, and in many instances their actual construction have been performed by the same people,—master craftsmen who had labored as workmen and then as master workmen until they had absorbed the magic and mystery of the spirit of design which plays so vital a part in architecture at its best. To such men are due no doubt the airy, fragile cathedrals of the Gothic age in France, the cathedrals of England, sometimes fragile and graceful, but often (as at Durham) solid and massive and built in all the different styles which have followed one another during most of a millennium,—all of which confuses the popular mind as to the distinction between building and architecture.

In this work by a well known English writer there is presented a review of the origin of architecture, as the word is understood today, and its gradual separation from building proper. "When the Renaissance dawned in Italy, the comparative anonymity of the architect ceased, but for a long time he was a master craftsman rather than the professional and sedentary architect of today. In England the mediæval organization, with the master

mason at its head, persisted even longer than in France. Sir Thomas Jackson quotes the accounts for the building of Wadham College, Oxford (1610-13), where it appears that there was no architect proper, but only a clerk-of-works or chief workman, who was paid on that basis. Of Inigo Jones (1573-1652) we have much more full and accurate knowledge. Born in London of humble parents, he is said to have been apprenticed to a joiner.

Having attracted the attention of a nobleman at court, he was enabled to travel in Italy on a sketching tour. From 1616 until the war, and also for the last few years of his life, he enjoyed great success as an architect, his practice being partly derived from his office as Surveyor-General of the Works and partly from commissions from noble patrons. Sir Christopher Wren (1632-1723), though even more of a professional architect, entered on his calling from an unusual direction. His brilliant career has received so much attention of late that it is unnecessary to dwell upon it further than suffices to point a moral. He was a man of such commanding intellect that in any walk of life he would have risen to the top, and his success in architecture is no justification for argu-

ing that technical training is ordinarily unnecessary."

Mr. Briggs likewise dwells upon the history of the different forms of effort which enter into building,—with masonry in stone and brick, carpentry or joinery, metalwork, etc., and his pages present illustrations to show the development of each through stages which almost suggest a form of romance. It is sometimes said that architecture as it is constituted at present is in danger of losing touch with the phase of construction now called building. The present-day architect, absorbed as he necessarily is with design and the intricacies of business, is obliged to delegate so much to his assistants that he becomes chiefly a business executive, and likely to be indifferent to both construction and craftsmanship. But the brightest days of architecture were just those during which one man was at the same time architect, builder and craftsman, and these functions can be entirely separated now only at the cost of grave injury to them all.

A SHORT HISTORY OF THE BUILDING CRAFTS. By Martin S. Briggs. 296 pp., 5 x 7½ ins. Price \$3.50. Oxford University Press, American Branch, 35 West 32nd Street, New York.

Books Reviewed

A Short History of the Building Crafts.

Rules for Drawing the Several Parts of Architecture.

Art Guide to Philadelphia.

How to Distinguish the Saints in Art.

Woodcut Annual for 1925.

Architecture.

French Provincial Architecture.

Books Received

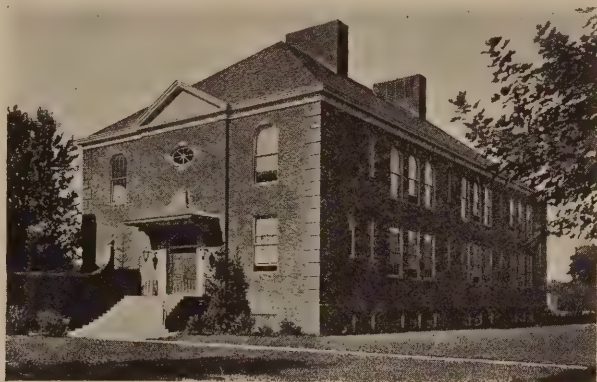
The Practical Book of Tapestries, \$10. (J. B. Lippincott Co.)

Etchers and Etchings. \$10. (The Macmillan Co.)

The Adventures of an Illustrator, \$12.50. (Little, Brown & Co.)

GRADE SCHOOL BUILDINGS; BOOK II

IN no department of architecture have the last ten years seen quite the progress which has been made with schoolhouses, a class of buildings of the first importance, since they exert a strong influence upon their communities, and by their architectural excellence or the lack of excellence they elevate or lower the architectural standards of entire districts. Study of school structures, particularly at the hands of a group of well known architects, has resulted in their being given a high degree of architectural distinction and dignity in the way of design, while study directed toward their planning and equipment has led to their being practical and convenient far beyond what was regarded as an advanced standard of efficiency even a few years ago.



Kensington Schoolhouse, Great Neck, N. Y.
Wesley Sherwood Bessell, *Architect*

THIS volume, a companion to another published in 1914, records the results of endless study and experiment in different parts of the country, summed up and presented. By illustrations of exteriors and interiors, by floor plans and carefully written descriptions and articles by well known architects and educators, the present high standard of schoolhouse design is made plain, and these results which have been achieved by a few architects and school boards are thus made possible to all architects who are interested in schoolhouse design. The compiler has selected from almost 1000 exteriors and floor plans the school buildings to be illustrated, and the volume records "a process of innovation and elimination, namely, the introduction from time to time of features which have been deemed desirable and practical, and the elimination of things which, owing to changed school methods, are no longer required."

400 pages; 7¾ x 10½ inches
Profusely Illustrated; Price \$10

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RULES FOR DRAWING THE SEVERAL PARTS OF ARCHITECTURE. By James Gibbs. The first edition reduced, with an introduction by Christian Barman. 111 pp., 5½ x 8½ inches. Hodder & Stoughton, Ltd., London.

THERE is little realization today of the extent to which excellence in architecture as well as in furniture during the eighteenth century was due to the publication of plans and details of buildings and drawings and details of furniture. Works by Gibbs and others among architects, and by Chippendale among makers of furniture, circulated over a wide area into all parts of provincial England, into Scotland, Wales and even into Ireland. Builders profited by the example set them by the great architects of London, while in far-away America, then regarded as upon the edge of the world, these published works by eminent Englishmen and Scotchmen placed plans and drawings of an architectural nature before builders sufficiently trained and discriminating to benefit by them. The strength of their teachings may be gauged in America by the excellence of much of the building of the colonial and early federal periods which still exists in cities and important towns along the Atlantic seaboard from Maine to Georgia,—buildings of an excellence which architects despair of equaling today.

In this volume there is presented a work which, while considerably reduced in size of its pages, is a reproduction of a volume which aided materially in the development of correct architecture in Great Britain and America. Gibbs is a name which of course ranks well among the names of the great luminaries of architecture in Georgian England, and his works, while they may still be occasionally had, are sufficiently rare to render this reprint acceptable to a wide circle of architects and students to whom access to the original would be impossible. The pages of the original work from which this new volume is produced measure 11½ x 18½ inches, the pages of the new, 5½ x 8½ inches, but in other respects, with one or two microscopic changes, it is a faithful reproduction. The volume is prefaced by an introduction by Christian Barman, and excepting for the differences noted is a new edition of the "Rules" issued at London in 1732 and "licensed" by George II.

The volume, with its beautiful drawings of columns, pilasters, cornices, soffits, architraves, mantels and other details, might be profitably studied in connection with Gibbs' "Book of Architecture," for a comparison.

THE ART GUIDE TO PHILADELPHIA. By Edward Longstreth. 190 pp. 5½ x 8¾ ins. Price \$1. Edward Longstreth, Drexel Building, Philadelphia.

THE historical importance of Philadelphia and the significance of its relics, architectural and otherwise, lend the city an interest which attaches to few other places in America. Added to this there is the fact that Philadelphia has been singularly fortunate in having had a great number of wealthy and public spirited citizens who have given lavishly to building up the city's art collections and to firmly establishing its art schools, museums and other institutions, as well as to the enriching of its parks and other public areas.

Mr. Longstreth's work is a particularly useful volume, in that while it is called a "Guide" it is written in a vein wholly unlike that of most of the current guide books. Considerable account is given of Philadelphia's architecture, adding of course to the value of the volume.

HOW TO DISTINGUISH THE SAINTS IN ART. By Major Arthur de Bless. 168 pp., 9 x 12 ins. Price \$2. Art Publications, Inc., 707 Fifth Avenue, New York.

DURING the Christian centuries, beginning with the days of the catacombs, there has been growing up an intricate symbolism in which art is associated with legend and tradition. This symbolism, which relates to Our Lord, the Trinity, the Virgin, Saints of all centuries and many of the monastic orders, has engaged the attention of countless students, scholars and writers, and many volumes are filled with the knowledge which their study and research have brought to light. The matter has decided importance in connection with architecture, since ecclesiastical architecture and decoration in particular are closely concerned with the use of type and symbol, and frequently derive much of their excellence therefrom.

At first thought it might be supposed that with so many works on hagiology already existing there would be scarcely a demand for another. Each work, however, is the expression of some new and different writer and records the results of his study in the fields of history and art, and many a new work adds to the general store of knowledge some detail which has escaped the attention of earlier writers on a topic seemingly so inexhaustible. So, with the present volume, which presents well-known subject matter in a way which is fresh and new, and which by means of a new arrangement of the details concerned renders the study of emblems and symbols less confusing than it is supposed to be and ordinarily is.

THE WOODCUT ANNUAL FOR 1925. 52 pp. Edition limited to 600 copies, printed from large type, arranged double-column, on Old Stratford paper, large quarto in size, bound in orange boards. Price \$7.50. Published by Alfred Fowler, Board of Trade, Kansas City.

SO largely have modern mechanical processes taken the place of craftsmanship in various departments of effort during the past quarter-century that the revival of wood engraving comes with almost the force of a fresh discovery. The art, however, is venerable indeed. It flourished in ancient China, and in Europe it antedated by many years the invention of printing from movable types; some would place certain existing European woodcuts at a period not long after the opening of the fifteenth century. The marvelous color prints in which the Japanese excelled during the eighteenth century were from blocks of wood, and until the rise of the deadly mechanical processes which usurped its place the work of the wood engraver was highly regarded, and it engaged the time and the thought of many eminent in other spheres.

The earliest woodcuts were from designs drawn on blocks of pearwood, applewood or other woods of like texture, cut plankwise (the upper surface running with the grain), and cut with a sharp knife. The parts to print black were left standing, the parts to appear white being entirely cut away. In some woodcuts, notably in some by certain French engravers of the mid-fifteenth century, the design was practically white line work instead of black line work, that is to say, white on black.

During each year the appearance of the *Woodcut Annual* will mean the summing up in review of the wood engraving during a year. The 1925 edition is replete with matter on the subject, beautifully illustrated and written in a way calculated to stir to the depths the imagination (and efforts) of anyone who has in the smallest degree the instinct of an intelligent craftsman.

ARCHITECTURE. By Sir Thomas G. Jackson, Bart. 366 pp. 5 $\frac{3}{4}$ x8 $\frac{3}{4}$ ins. Price \$8. The Macmillan Co., New York.

THE years which have elapsed since the ending of the World War have seen the publication of a great number of works dealing with architecture, some of a historical nature and others of a more or less critical character, a work sometimes being such that it is difficult to assign it definitely to either of these classifications.

Such is this volume by Sir Thomas Graham Jackson, Bart., written by him during his last illness and finished only a few weeks prior to his death. The wide scope of the work may be realized by a glance at the contents page, for Chapter I is devoted to "Early Greek Architecture," while Chapter XXXIV deals chiefly with the later Renaissance in France, the headings in between suggesting the outline which, as developed in the text itself, gives a survey of the entire history of architecture in Europe. As one examines these closely written pages, it is difficult to decide whether to admire the more the author's treatment of that period when with the founding of a new seat of Empire on the shores of the Bosphorus there began the simultaneous aggrandisement of New Rome and the steady decline of the Old, or whether the palm of admiration should be given to the writer's discussion of the Renaissance era, particularly in France and England. All of this historical matter, often presented in a form as dull and dry as scholarship and pedantry could possibly make it, is here enriched and enlivened with matter more or less critical and commentary which makes plainer the historical facts by explaining or interpreting to the reader the relations sustained by details to the development of architecture.

We know of no work which makes quite so plain the definition of architecture as "knowledge of the building craft, corrected and directed by reason and study, or what Vitruvius calls discipline, in other words practice supported and guided by theory." Equally unmistakable is the author's teaching on the independence of architecture of sheer ornament. "Nowhere did Architecture declare her independence of ornament more vigorously than in the Cistercian buildings of the twelfth and thirteenth centuries. By the rules of that stern order ornament was absolutely forbidden. There was to be neither painting nor sculpture; the glass was to be white, without cross or ornament, and the bell tower was to be low and unostentatious. Like the Mussulman, the Cistercian artist was deprived of the use of natural ornament. At the most he could temper the dry severity of the arches of doors and windows by moulding the edges; and abroad, where moulding was less in fashion than with us, as for instance in Burgundy, in such churches as that at Pontigny, there was but little of that. But notwithstanding this prohibition, the Cistercian has shown us that he could dispense with ornament and wanted nothing but nicety of proportion, dignity of scale, graceful outline in the forms of his construction, to enable him to reach the highest level in his art. The Yorkshire abbeys are mostly Cistercian and are among the loveliest buildings and the stateliest that have come down to us from the middle ages."

The work is, of course, splendidly illustrated with countless line cuts and half-tones and work in color.

French Vernacular Building

A Review by ROBERT McLAUGHLIN

HERE is a volume likely to bring interest and joy to the architect, and pleasure to the lover of fine books. It is a work whose preparation has evidently extended over a number of years, and it contains photographs which must have been culled with discrimination from a much larger collection. Text and illustrations reflect a wide knowledge of the French provinces extending over little frequented roads, and indicate a sympathy for their architecture which comes of considerable association and more than superficial understanding, together with excellent taste.

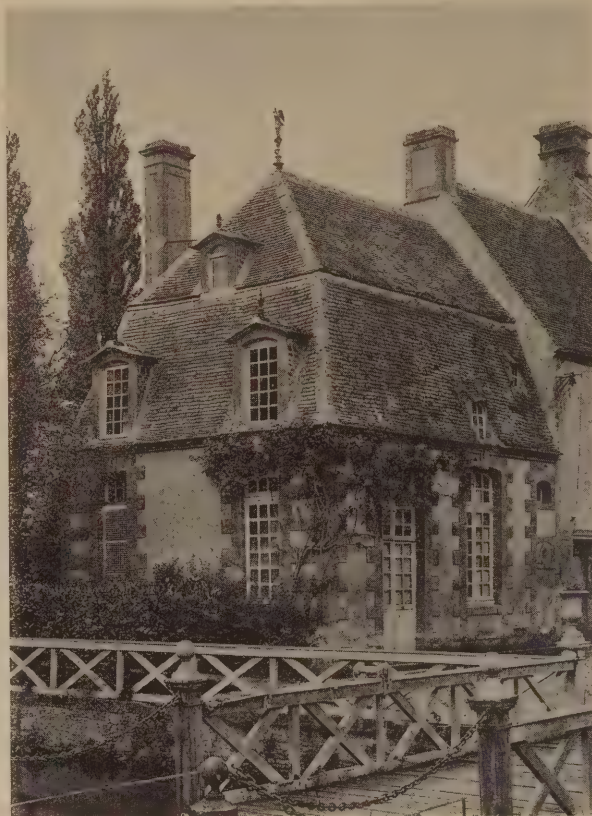
American architecture has been varnished over with revivals and foreign influence until many of our buildings that make any pretense to beauty consist in their architectural entirety of stone veneer and ticked-off detail. Perhaps their most crying need is for architectural solidity. We can never get this by stylistic enthusiasm for particular corners of Europe. The buildings illustrated in this book depend for their effect on fine proportions, and on a sense of solid "buildability" that we too often lack, particularly in many of our adaptations of early American work. We have never been sufficiently aware of the great amount of vernacular building done in the various French provinces.

America in its beginnings was colonial England, and its architecture was just what the words imply. Only in centers such as New Orleans did French influence exist to any extent. At the beginning of the nineteenth century, when French architects were called in to aid on our public works, their chief contribution was France's own particular version of the Classic revival. Later on in the century, when we began to have misgivings about our brown stone fronts and turned our eyes longingly to European sources of inspiration, it was chiefly through education that France brought her conceptions of architecture to bear. One result of this was an academic attitude toward architecture that may be successful with monumental buildings or Newport villas, but which simply fails to work with smaller, livable American houses. It was the France of Parisian boulevards, and Beaux Arts *projets* that reached us. Consequently, we now welcome the buildings illustrated in Messrs. Goodwin and Milliken's volume as a refreshing lot of buildable and humanly attractive work, well suited to American needs.

The illustrations are remarkably clear in detail. Well composed, they are essentially architectural, and not dependent on the expanses of their surroundings to make pretty pictures which leave valuable detail to the imagination. Along with plans and elevations, the authors

present details of ornament drawn with sympathy and with skill. The history of ornament arrived at its climax in eighteenth century France. In spite, perhaps, of a personal preference for Greek restraint or the naïve vigor of Romanesque sculpture, one is forced to admit that, once set a definite problem, the sheer inventive, flowing facility of the designer and cutter of the Louis periods is unrivaled. As might be expected, the detail of provincial houses is less amazing than in monarchical palaces. But its charm is still there, and it is beautiful in a more attainable form.

The book has been done with American architecture constantly in view. The work of Mellor, Meigs & Howe often reflects the character of these houses, with solid, well proportioned mass as the essential feature of good design. Early French Canadian dwellings, built in the neighborhood of Montreal, Three



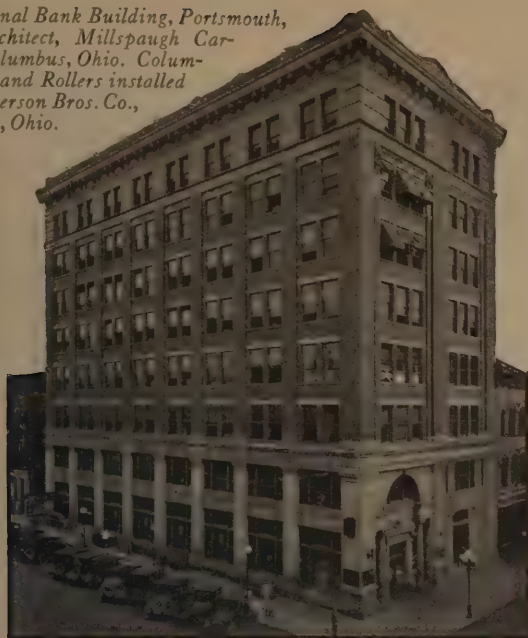
Chateau of Carel, St. Pierre-sur-Dives
An Illustration from "French Provincial Architecture"

Rivers and Quebec, were as much like their background in the French provinces as the architecture of the American colonies was like that of Georgian England. Solid, unadorned masonry surfaces are in contrast with the delicately detailed, two-by-four construction of our early republic. But (alas!) the economic factor seldom permits deeply revealed masonry walls in smaller buildings, their loss made necessary by present-day conditions.

It should be noted that the reproduction of drawings and photographs in this volume was beautifully done by Daniel Jacomet in Paris. The foreword says: "It is hoped that this book may be of influence in the United States, where the pursuit of fashions in style and the imitation of strange foreign things, in a cheap and hasty way, has filled the land with curious sights. There is a style on which the best of any country's design is based, and that is good proportion, simplicity, and suitability. This book presents a few examples of this style to be found in France today." And it does it admirably.

FRENCH PROVINCIAL ARCHITECTURE. By Philip Lippincott Goodwin and Henry Oothout Milliken. 25 pages of text and about 130 photo-engravings, 11 x 15 ins. Price \$20. Charles Scribner's Sons, 597 Fifth Avenue, New York.

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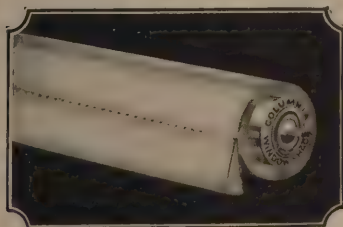
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PARKER MORSE HOOPER, Editor

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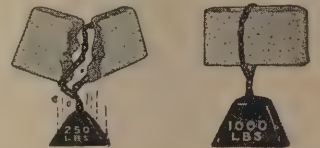
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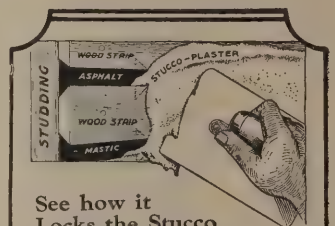
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THE EDITOR'S FORUM

AWARDS FOR ARCHITECTURAL MERIT

THE architectural awards by the Fifth Avenue Association for the best new buildings and alterations of the year in the Fifth Avenue center proved an interesting feature of the Association's annual dinner recently. The awards are based upon an investigation and study by a committee of lay members and architects appointed jointly by the Fifth Avenue Association and the New York Chapter of the American Institute of Architects, of all new buildings and alterations completed in the section during the year. The architect members are Harry C. Ingalls, Jerome R. Allen and J. H. Freedlander.

The first prize for new buildings, a gold medal and diploma, was awarded to Steinway & Sons for the new Steinway Hall at 109 West 57th Street. A certificate was given to the architects, Warren & Wetmore, in recognition of their excellent work. The second prize for new buildings was awarded to the dignified structure known as the Macmillan Building at 60 Fifth Avenue. The owners, the Macmillan Company, received a silver medal and diploma, and a certificate relating to the award was presented to the architects, Carrere & Hastings.

A gold medal and diploma signifying the first prize for altered buildings was awarded to Joseph Brummer, owner of the Brummer Building at 27 East 57th Street. The architect, I. N. Phelps Stokes, received a certificate. The second prize for altered buildings was awarded to E. Gerli & Co., Inc., for the Gerli Building, 49 East 34th Street.

STEEDMAN FELLOWSHIP IN ARCHITECTURE

THE governing committee of the James Harrison Steedman Memorial Fellowship in Architecture announces the first competition for a fellowship of the value of \$1,500, the holder of which is to pursue the study of architecture in foreign countries, as determined by the committee and under the guidance and control of the School of Architecture of Washington University, administering the trust.

This Fellowship is open on equal terms to all graduates in architecture of recognized architectural schools of the United States. Such candidates, who shall be American citizens, shall have had at least one year of practical work in the office of an architect practicing in St. Louis, and shall be between 21 and 31 years of age at the time of appointment to this Fellowship. Application blanks for registration can be obtained at any time upon written request addressed to the head of the School of Architecture of Washington University, St. Louis, to whom all candidates are required to forward their application blanks, filled out, not later than January 31, 1926.

THE NEW YORK BUILDING LAWS

REVISION of the New York Building Code as an important feature in the reorganization of the city government was urged upon Mayor Walker recently by the American Institute of Architects. Coöperation in the work and in that of regrouping city bureaus and agencies and for city planning and housing has been pledged Mr. Walker by the architects. Several attempts have been made in recent years to revise and bring the Building Code up to date, but no progress has been made in this direction.

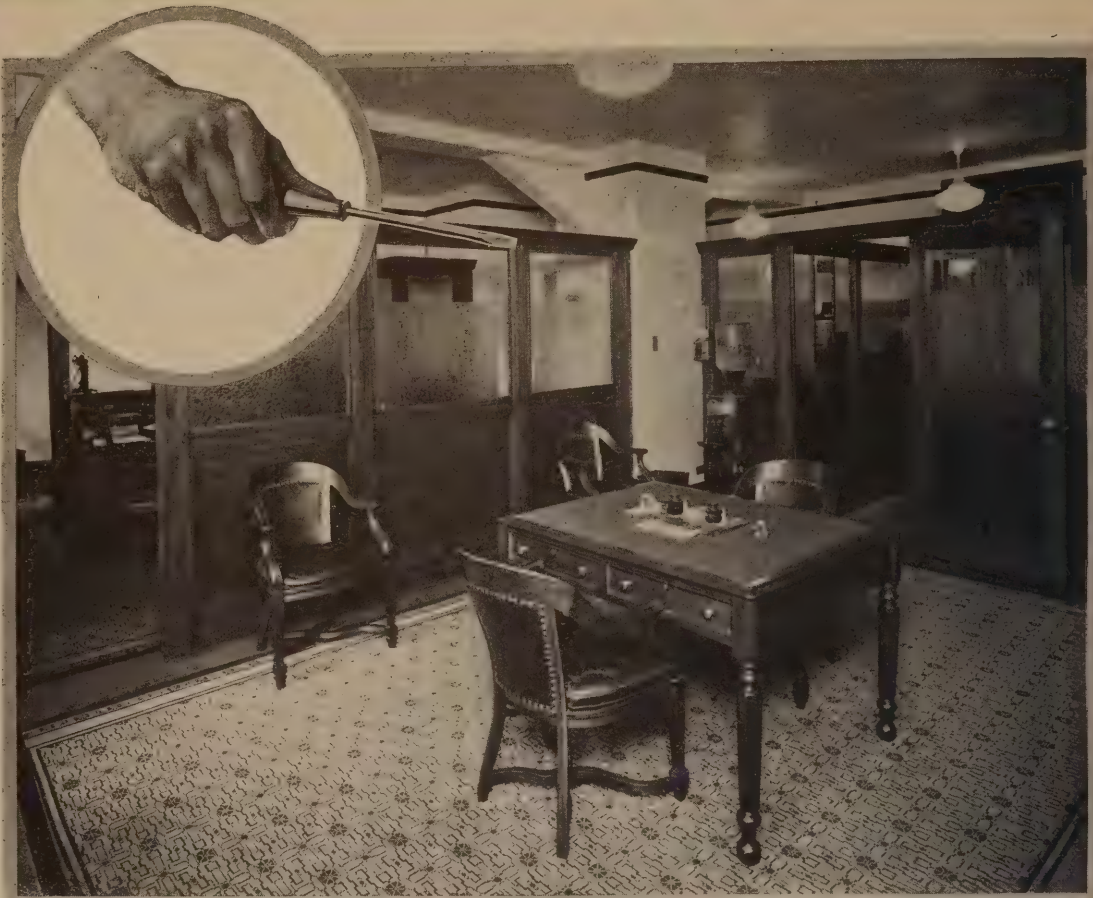
Pointing to the defects of the existing code, the architects told the Mayor at their conference that limitations placed on use of building materials in New York are more severe than in other cities, such as Chicago and Philadelphia, resulting in added cost of construction in certain types of structures. Building superintendents in the different boroughs place different interpretations on the code, further complicating the case. Builders are put to endless annoyance by the existing system, which requires them to go to half a dozen departments for permits and to submit to as many inspections of everything connected with their building programme. This was cited as one of the abuses of the old system, which could easily be overcome by consolidation of bureaus and functions scattered among many departments.

A TRAVELING SUMMER SCHOOL

DURING the present year there will be conducted a Traveling Summer School which promises to be of the greatest value to students. Under the direction of Prof. Paul Valenti, of the School of Architecture, Washington University, those participating will spend several weeks in Italy, where the Royal Italian Government has offered all possible coöperation which could make the School attractive. The party will leave New York on Saturday, June 26, returning to New York on Thursday, September 16. The tour offers advantages in the way of classes in Italian and in Italian History, together with lectures on the Italian Styles and on Interior Decoration as well as on the History of Architecture, Painting and Sculpture. Details regarding the School and enrollment in classes may be had of Prof. Valenti, Washington University, St. Louis.

A CORRECTION

IT is a matter of regret to find that in THE FORUM for September, the Apartment House Reference Number, proper credit for use of one of the illustrations was not given. Page 175 of that issue illustrated a "Five-House Group at Bristol, Tenn.," which should have been credited to C. B. Kearfott, Architect, R. V. Arnold, Associate, as the designers.



One Tool Will Move This Partition

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Detail of the facade of Saint Peter's, Rome, built by Carlo Maderna in 1606 when the original plan was abandoned and the nave lengthened.

From an etching by Louis C. Rosenberg

The ARCHITECTURAL FORUM

VOLUME XLIV

JANUARY 1926

NUMBER 1

Harington House in Gloucestershire

By ROGER WEARNE RAMSDELL AND HAROLD DONALDSON EBERLEIN

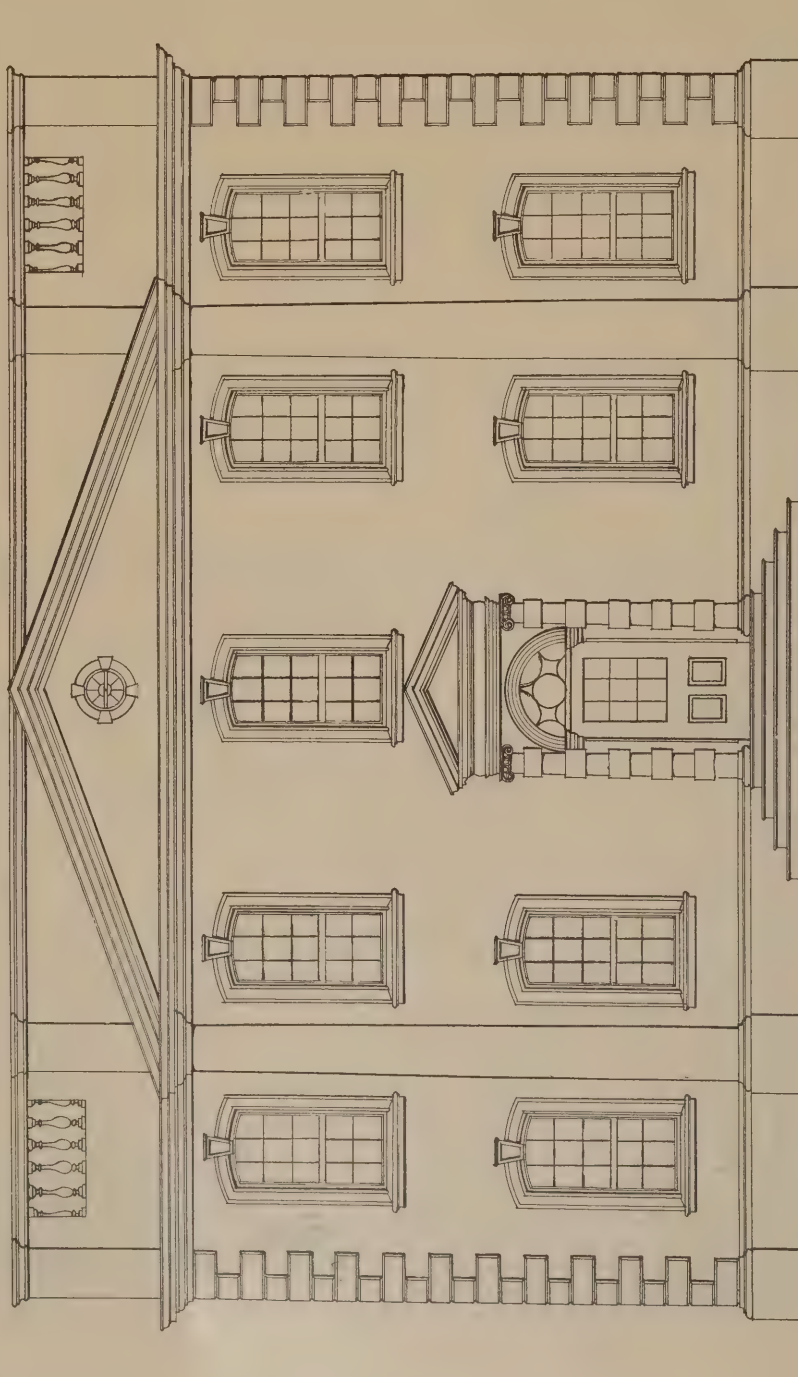
THE English architects of the early eighteenth century had preëminently the gift of making the most of their opportunities and of the resources at their command. They could design houses of moderate size in the "grand manner," and in so doing they could manage to invest them with presence and dignity tenfold greater than a structure of like size is commonly wont to present nowadays. They had a fine conception of broad and ample scale, and this scale they applied even to small buildings with exceptionally happy results. They were near enough to the days of the seventeenth century grand manner for the vigorous traditions of that spacious period still to have a potent influence upon the creations they designed. Furthermore, they were not beset by the popular obsession of later days for a multitude of partitions dividing most of

the satisfactory spaces into an absurd number of small rooms which people thought they wanted, and which were dignified with special and high-sounding names, but which they did not really need and did not use when they had them. Consequently, it was often possible to invest even the most unpretentious structures with comely bearing and poise in a peculiarly distinguished and gratifying manner.

Harington House, at Bourton-on-the-Water, in Gloucestershire, is a case in point, where a structure of no great extent conveys an impression of amplitude beyond what might ordinarily be expected, perhaps beyond its actual dimensions. It is just this quality more than anything else that makes it a subject particularly deserving of close analytical study. The heights of the stories and the character of the details employed account for a great deal of the gen-



The Garden Facade of Harington House

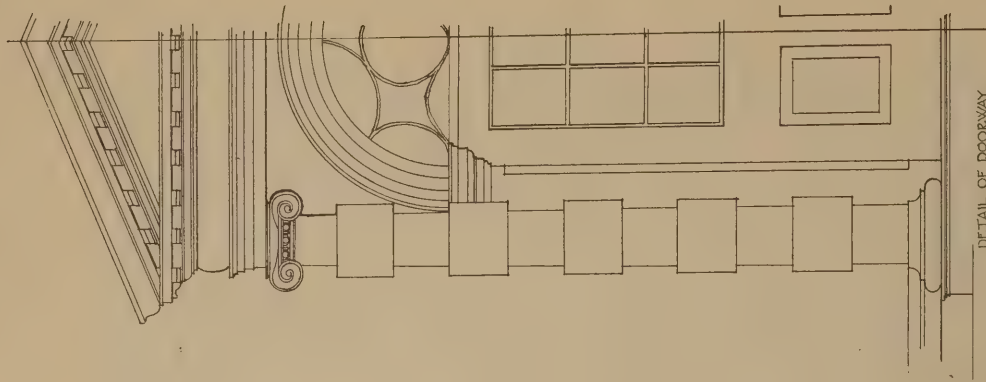


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SCALE OF FEET

INCHES 1 2 3 4 5 6 7 8 9 10 11 12

SCALE FOR DETAILS



DETAIL OF DOORWAY

eral effect produced, to be sure, but there are other relationships of proportion and sundry subtleties that merit careful examination. Besides this, there are certain individual peculiarities of detail about Harington House that lead us to the conclusion that either it was designed by an architect who had not fully steeped himself in all the nice precisions of the Georgian manner as it was then interpreted, or else that the artisans employed now and again took liberties in the matter of execution of the designs furnished by an architect at a distance. These little peculiarities are in the nature of refreshing whimsicalities rather than indications of "cultured amateurishness." At any rate, they add to the sum total of charm, and there will be occasion to allude to them later on during the course of this discussion.

What probably happened was the latter of the two seeming possibilities. The plans were presumably sent down from London by an architect of recognized position and accomplishments, and were then carried out by some competent local master builder who, however, could not resist the temptation to exercise the latitude of judgment to which such men were accustomed; perhaps here and there he put in a touch of the Gothic vernacular which lingered longer in the Cotswolds than anywhere else. To find a stopped Gothic chamfer on the top quoin of a Classic dwelling, replete in most respects with all the studied urbanities of sophisticated scholarship, is like finding a rare woodland flower abloom in the midst of a border in a scrupulously groomed formal garden. As a matter of fact, if the foregoing

hypothesis of construction be correct, the drawings provided by the city architect doubtless left many minor details without specific indication,—this was often done at the time,—and the master builder executed them in the way he knew best. None of them appear impertinent or incongruous; they are merely evidences of engaging naivete, committed in perfect good faith, with honest intent on the craftsman's part.

Harington House, taken in its entirety, is a fairly large dwelling, but the early Georgian part, under immediate consideration, is of only moderate size. The north wing was built in the seventeenth century and served as a sufficient domicile until sometime between 1730 and 1740, when the addition with which we are here concerned was made. Several years ago, when the house came into the hands of its present owner, the south wing was built in conformity with the style of the original structure. It was in many ways a fortunate thing that until the building of the new wing nothing whatever had been done to the house since 1801. Restorations, therefore, were altogether a matter of structural repairs.

One of the best things that came from leaving the house so long untouched was the preservation of the old wallpaper in the first floor hall, paper made by Jackson of Battersea and executed in his best manner. The paper was soiled and fairly in rags and tatters, but it was carefully removed from the walls, cleaned, repaired, mounted on a *chassis* and put back in its original position. Another interesting survival of original wallpaper occurred in the cupola, where the paper of eighteenth century Chinese origin re-



Entrance Facade from the Highroad, Harington House



Entrance to Service Wing, Harington House

mained in place, less distinguished, indeed, than the Jackson paper of the first floor and much marred by the accidents of time, but still worthy of the careful restoration accorded it. In still another respect, too, the abstention from nineteenth century changes at Harington House has been particularly fortunate. The plaster decorations are intact and present an epitome of English decorative plasterwork from the first half to almost the end of the eighteenth century.

An amusing bit of domestic history is connected with the plaster enrichment. The heiress who owned and occupied Harington House during a great part

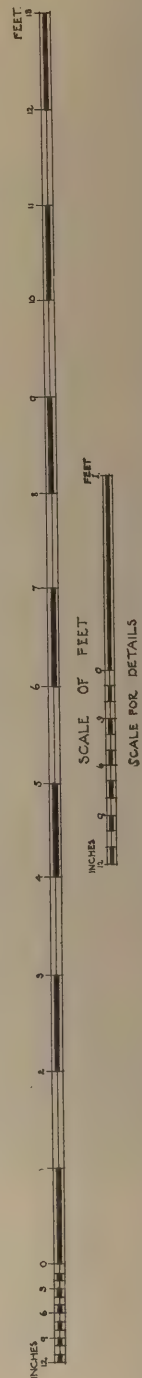
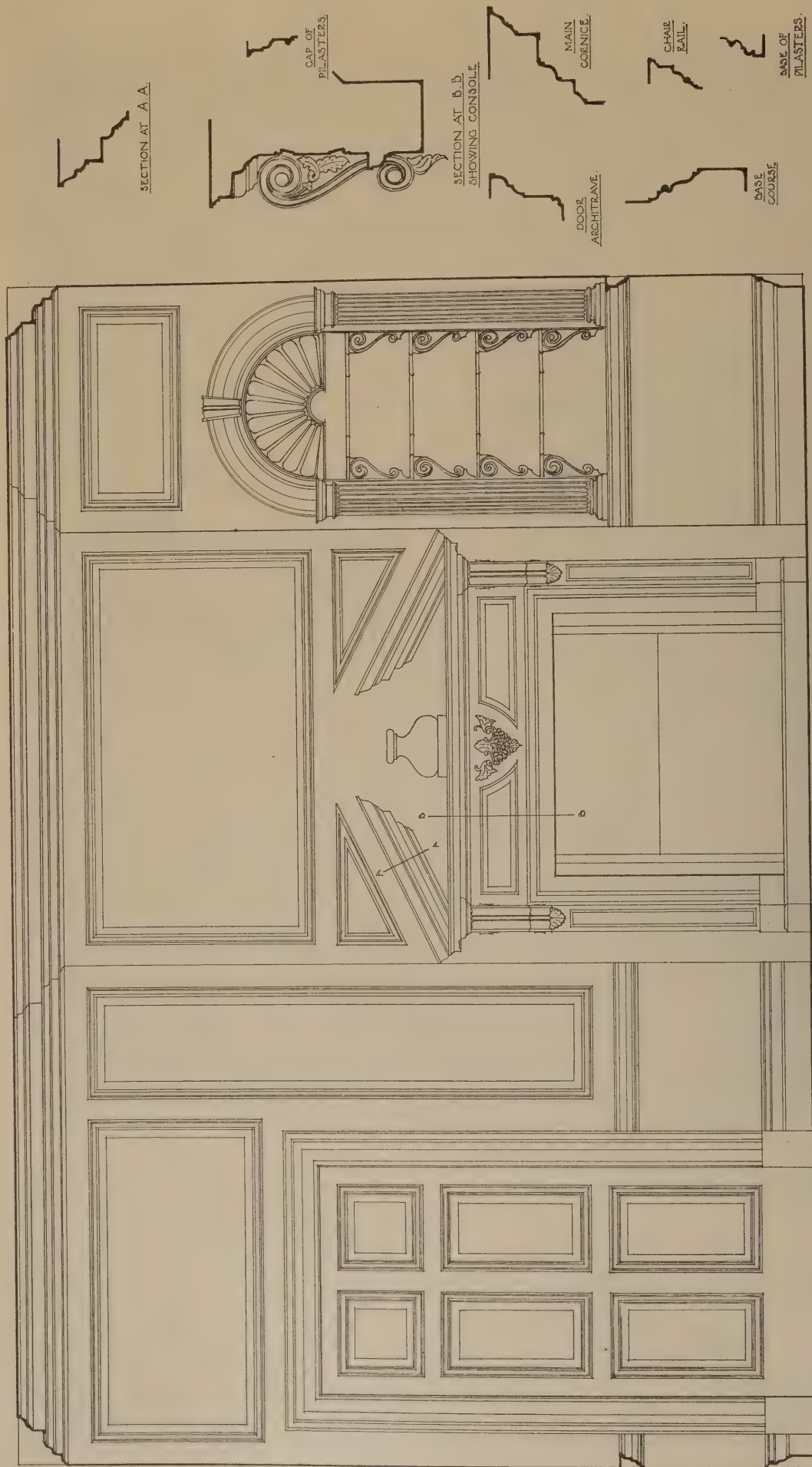
of the eighteenth century was not only long-lived but also much given to matrimony. She had three husbands, in due and proper succession, and the acquisition of each spouse seems to have inspired her to garnish her dwelling with whatever form of plaster ornament was then in vogue. There is the early work (characterized by vigorous motifs and virile rendering), reminiscent of the fashions that prevailed in Queen Anne's day and for some time thereafter; there is the efflorescence of the once esteemed Rococo, imported from across the Channel, and there are the meticulous refinements of the



Doorway and Palladian Window, Garden Facade, Harington House

ultra-Palladian school. Last of all, there are the foreshadowings of the sterner vein of Classic severity that was later to dominate design in the early part of the nineteenth century. Curiously enough, the successive plaster adornments are so juxtaposed that their general effect is not at all incongruous, despite their diversity of provenance and expression, and none but the most exacting purists could cavil at the unusual association of modes. What is especially significant is that each manner of plaster embellishment is presented not in its most elaborate form, such as the examples one ordinarily sees illus-

trated as typical of the several styles of historic interior decoration, but in a very moderate and unpretentious way, suitable for average domestic employment. In this connection it is worth noting that in the dining room, as in the corresponding room on the opposite side of the entrance hall, the field of the ceiling is colored a pale blue, against which the relief of the unobtrusive Rococo plaster decoration stands forth in effective contrast. The sunburst in the center of the ceiling of the first floor hall is gilded. Otherwise neither color nor gilding is used in conjunction with the plasterwork. With such





Fireplace in Study, Harington House

satisfactory instances of the use of plaster in view, the incentive to a fuller utilization of this resource in modern treatment gains new and increased force.

The staircase of Harington House is quite remarkable in that all the risers and treads, which are of oak, are inlaid with bounding lines of cross-banded walnut, yielding a diverting feature of contrast in both color and grain. The landings also are inlaid with bounding lines and small geometrical figures. This is one of those pleasant little individualities that are constantly coming to light in the course of examination. Another is the Chinese fret-

work balustrade of the little staircase ascending from the attic to the cupola. Besides the unusual inlay ornament of the steps and landings, the main staircase exhibits other items of interest that will repay close study. In fact, all the detail throughout the house may be scrutinized with profit. The niches in the master's study; the fireplace in the same room; the fireplace with a tinder hole, in the old wing; the chair rails; the paneling, all display marked individualities that offer a substantial reward to the discerning student with a mind to investigate them and explore the niceties which occur throughout the house.



Doorway from Hall into Study



Detail, Doorway in Hall



Chimneypiece in Dining Room

The exterior is of the native Cotswold limestone, of a warm, tawny hue, well calculated to enhance the distinguished aspect of the composition. It is likewise a thoroughly satisfactory medium for the execution of mouldings and such carved ornament as the pilaster capitals, the parapet balusters, and the vases that crown the parapet. The weather merely adds patches of black stain that intensify the shadows without disintegrating the stone or injuring it.

In scanning the west or entrance front of Harrington House, one cannot help feeling that the architect, whoever he may have been, was familiar with and admired the work of Sir John Vanbrugh. The general treatment of the fenestration is strongly reminiscent of Vanbrugh's manner, and in other features of the composition, too, it is possible to detect details more or less suggestive of the same source of inspiration. Quite apart, however, from seeking to establish resemblances or to point out possible attributions, we may observe that the handling of the windows is highly agreeable and, in the course of analysis, besides taking account of their detail, spacing and scale, we must note the distinctive character imparted by the glazing, especially by the division of the sashes, the upper being only two lights in height. At the same time, the heavily banded architrave of the doorway contributes not a little to the air of robust stateliness that marks this facade. The east or garden front is more serene in its composition and equally engaging. Not the least



One End of New Drawing Room

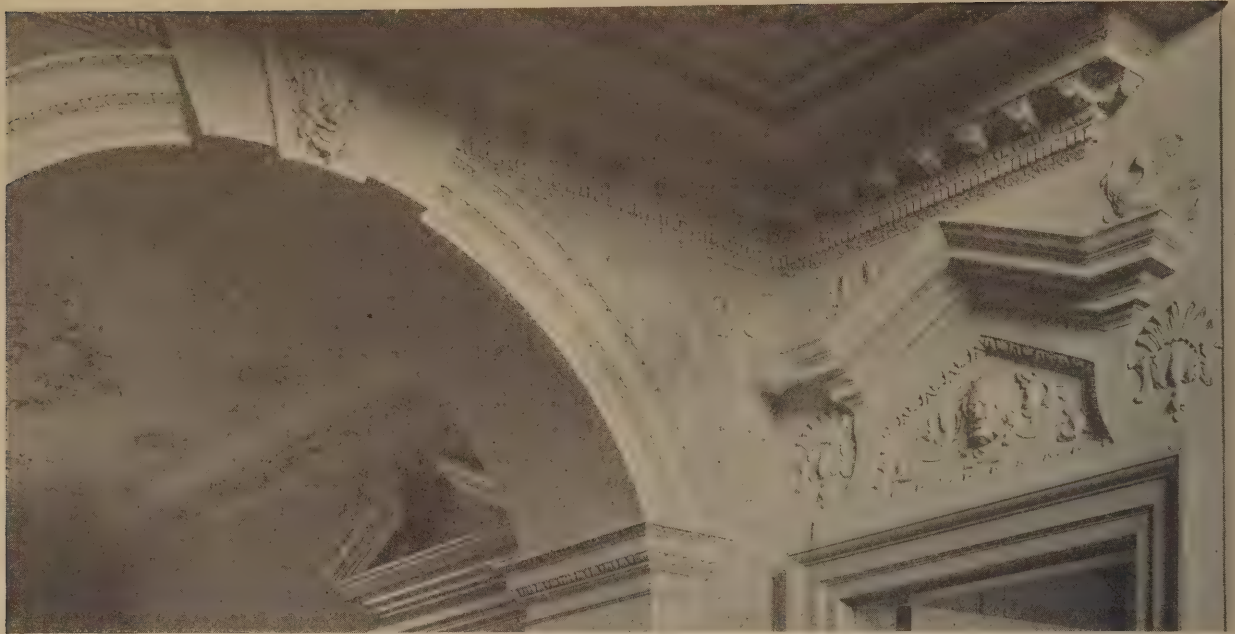
part of its distinction is due to the design of the doorway with the so-called "Palladian" window above it which lights the staircase and its landings.

It is unfortunate that the notion seems to have taken root in the minds of a certain class of the laity that any form of domestic architectural composition in the Classic manner must needs be a more or less perfunctory performance, to be compassed by observing divers cut and dried conventions, and that little wholesome variety of result is to be expected. To judge from sundry examples of modern building, it would seem that some of the architectural profession share this unworthy conception of the Classic manner as a thing blighted by standardization.

As a matter of fact, throughout the length and breadth of England, in country towns and in quiet villages, as well as in those parts of cities whose decorous eighteenth century aspect has not been marred by the encroaching tide of modern commercialism, there are to be found hundreds of houses of medium size, cast in the Classic mould, all of them eloquently preaching the same message. That message proclaims the vigorous vitality and infinite diversity of the Classic tradition. This vital diversity is quite evident enough to satisfy the most curious and insatiable in the matter of detail. There are scores of little local mannerisms, and very diverting mannerisms too, to be met with only in certain counties or parts of certain counties. As an instance of this sort of



Palladian Window on Stair Landing

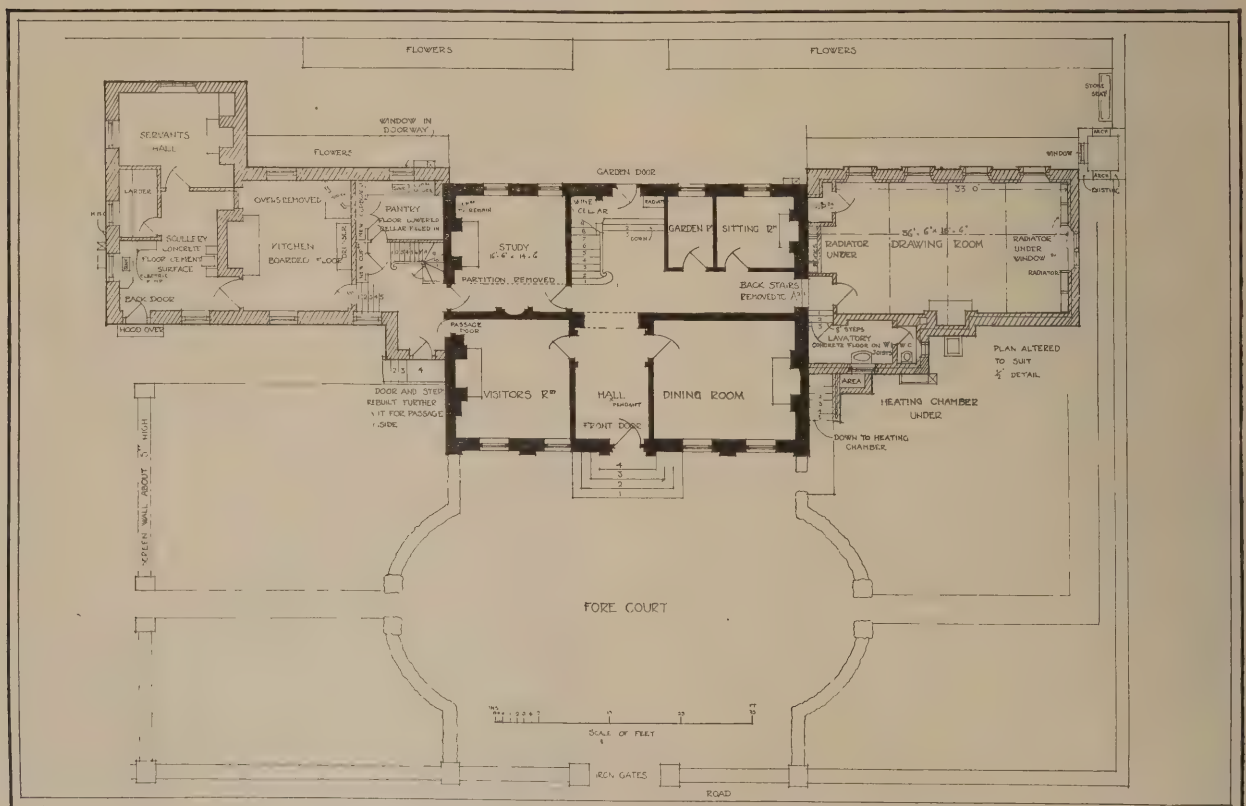


Details, Plaster Decoration; Entrance and Stair Hall

thing it might be mentioned that the doorways to be found in Bedfordshire, and more particularly in the vicinity of Woburn, show abbreviated doors resting upon brackets formed like the thin strips of dough that lace the tops of tarts made by old fashioned cooks.

What is more to our immediate point, however, is that these same houses abundantly prove the vital diversity compassed by the Classic mode in such an array of enticing compositions that the range of in-

teresting possibilities seems inexhaustible. The tightness of style, which those unacquainted with this Protean diversity are sometimes likely to attribute to the Classic mode, is non-existent. There could not be imagined a more engaging diversion for architects and architecturally inclined laymen than an extended study of those ample-mannered eighteenth century dwellings of which Harington House is such a conspicuous and so successful an example.



Plan of Main Floor, Harington House; Shaded Portions Show Additions

Reflections on the Exposition des Arts Decoratifs

By ELLOW H. HOSTACHE

THE words *Exposition des Arts Decoratifs* are still to be read, in sharply cut type, on the orange, black and gilded posters adorned with lace-like frames on buff, khaki and chamois backgrounds, which have been the outstanding feature of this post-war manifestation. October is waning—and so is this Exposition. This Exposition! What of it? . . . A few million cubic feet of concrete and plaster, shedding their varnishes and now ready for the *masse* of the demolisher; also, probably, just as many suits brought at the same time by exhibitors *vs.* contractors *vs.* the Town of Paris for breaches of promise,—for such is likely to be the outcome.

Well! . . . And what of the Decorative Arts? . . . *Les Arts Decoratifs* are no more! . . . This bastard offspring of anæmic artisanship and efficient salesmanship was not fit to live. We buried it on the banks of the Seine! But what was it all about? . . . About ornament! The dictatorship of ornament! Modern society, caught in a net of lines, dazzled by colors, crushed under volumes disposed by unorganized agents of arts in an unorganized plan to earn their living! Tickling the soles of our feet, massaging our optic nerves, caressing our few ounces of brain matter! Now it is the right of these agents to earn their living; but it is obtuse of

us to allow our senses to enslave our faculties for the sake of a Papuan delight and a seraglio-like *far niente!* It is for us to strip ourselves of all gaudy rags and gewgaws, and to discover that ornaments often hide a fault, a mistake, a flaw or a malformation. Under the unstable sky of sunny France, the Decorative Arts are no more! Next year's tourists will visit the ruins and the tomb. A good deal of money is expected. "On to Avalon!" is the spirit.

Everyone of these so-called arts was pretending to its own *raison d'être*, its own meaning and end altogether! They were to be considered, and we weren't! It was such a good joke that we all laughed

—and they died! Like fairs and fairies they died—in spite of that nonsensical Peter Pan! To be young and to want to stay young appeal to our understanding; but to be freakish, and to want to remain freakish, goes over our heads and hits only our sense of humor. Peter Panoisivity and decorrosivity are all very well in the movies, but, alas, somebody, sometime ago, built the Parthenon—and somebody else, not so long ago, built a very powerful airplane! . . . Thinking of these mileposts of progress, and having to write to a friend of this Exposition, one simply refuses to take the gilded quill from the inkstand-with-the-sand-shaker, to put it down in ornate



Poster Design



Entrance from Place De La Concorde



Wing, Austrian Pavilion

capitals. One leans over one's typewriter, and this is what one may say, were expression really to be given:

"The Exposition was an hour of fancy, and a long hour! Fancy implies its own restrictions. And wishes are not horses! Neither all hours nor all doors are open to fancy. Fancy is ephemeral. This

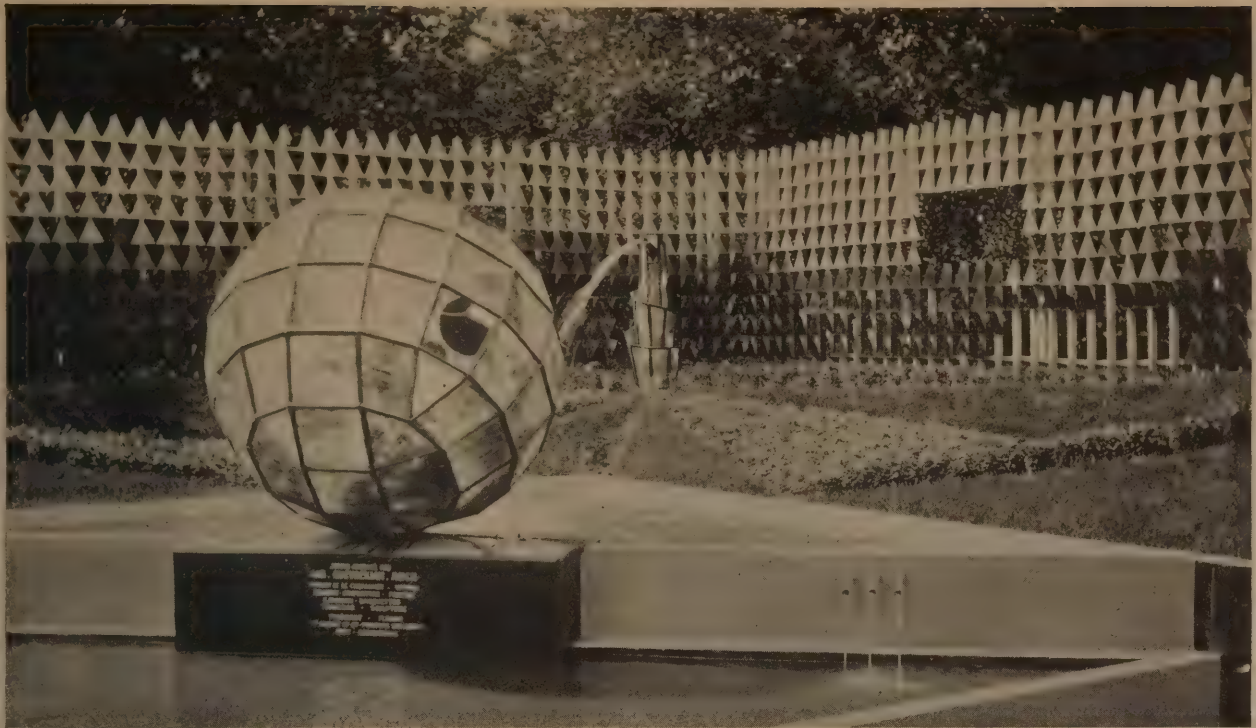
exhibit pleased or did not please, and this very fact indicates its value. Quantities of pleasure and qualities of it are not a criterion of high civilization. The largest exhibition will not fill the space separating beauty from pleasure. This exhibition tried to make us believe that there is no difference between them.



Entrance, Swedish Pavilion



De Lalique Fountain, Esplanade des Invalides



Garden Fountain; Stained Glass Ball Illuminated at Night

Everything on show was an appeal to our senses, if not directly to our pocketbooks; these senses fed up and the purse made lean, the intelligence after all remained unsatisfied. The style this Exposition was to advertise and did over-advertise is a cross between the Hispano-Suiza of an oil king in tuxedo

and the gilded *carrosse* of a Louis XV marquis in powdered wig; two beings and two means equally far from us and the general contemporary activities, needs, feelings and desires most of us have.

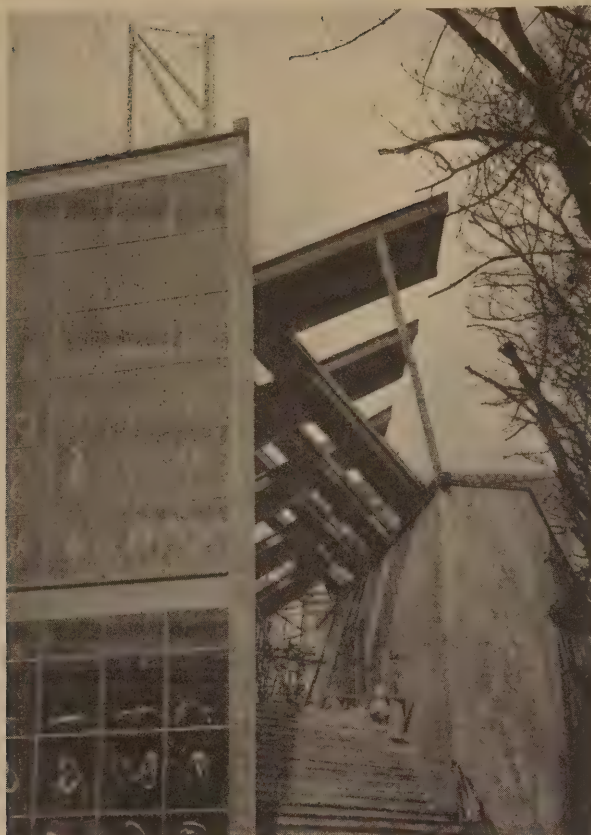
"Three days during these six months this exhibition intruded on our brain. Came the day, during



Tin-Plated Pavilion of the Newspaper, "L'Intransigeant"



Arcade of French Shops, in Multi-Colored Plaster



Wood and Glass Pavilion of Soviet Russia

the building-up, when we felt the engineer, the organizer waking in us. Came the day, during the summer, when everything was at its best and perfected, when we felt the grandeur of achievement, of activity, of potentialities, of nations' brains collaborating. Came the day, during the demolition, when the reformer in us took pleasure in seeing the clearing-up of this earth-skin from all the warts of super-production and super-possession. We understood then that the main question was, and as it has not been solved, still is, proportion, *rappports*, and that every epoch, segregated through the ages and labeled great, had satisfactorily answered the same question. That day we gloated with the architects.

"*Panem et circenses!*" The crowd was satisfied by this orgy of colors and shapes, but the individual felt himself as a visitor in a museum of specialties not very much in demand. What was, then, expected, required? The individual thought he knew it the day proportions unveiled themselves to him; but, alas, this was almost impossible to grasp in the claws of words; thousands of books were written on that subject! The bare truth is that there is an urge in every one of us to coax all the many talented, and sometimes geniuses, to apply themselves to the creation and elaboration of some better devices for the elevation of our faculties than mere skin titillators and de luxe cages and jewels for parrots and monkeys. Drifting along the Esplanade des Invalides, one was soon tired and bored. Ten thousand ways of framing your best girl's picture, or even



Facade Detail, Danish Pavilion



Chimney, Dutch Pavilion

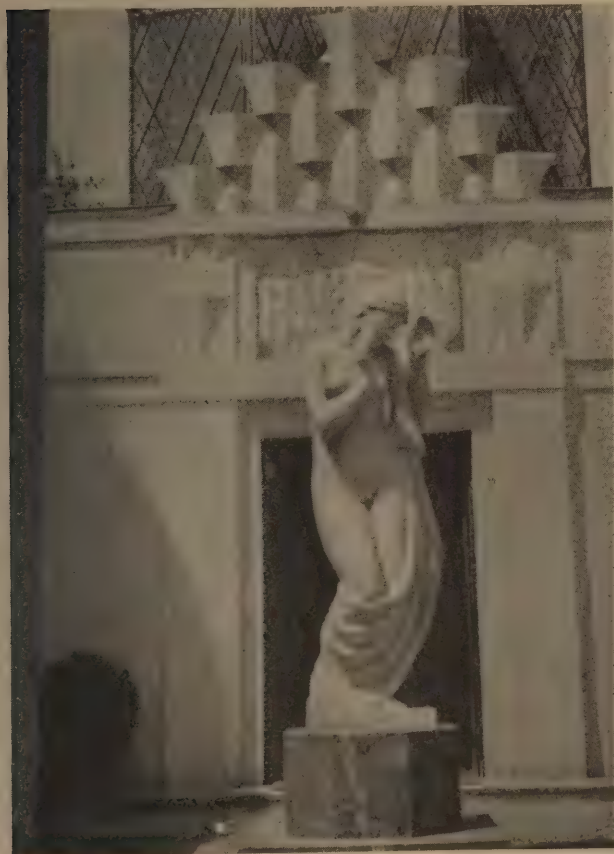
ten thousand different perfume bottles offered to her covetousness, do not require the best of any man's high-power intelligence or make other demands!

"Proportion has struck us by its misuse, abuse and disproportion. Economy, say what you will, is the haunting topic of all builders and organizers. Actually, one has to build, then, to organize one's life. One has to be an architect and an economist. Economy does not mean poverty but concentration and perfect adaptation of means to an end. One knows that every master of art was and is, in his work, an economist. Hygiene, sports, engineering, even good cooking, taught us certain methods that ease the body and the mind; and that though men differ in their methods, many of these are drawn from human standards, and that trespassing against them causes degeneration." This is true in art, applied or not. Before everything, one must live. Too many of our best intellects busied themselves in a contemplative dilettantism. The modern world is in full formation, and drags with it too many elements of the past lacking any further reason for remaining. One must discern the live parts from the mortified, and the Exhibition failed to show us such a choice in arts. Actually, artistic creation is very strong. Never, at any epoch, has such a creation been isolated from the exterior world. Master architects of old had the spirit of our engineers of today. Today's architects are too often mere interior and, alas, exterior decorators! To this has architecture now descended!

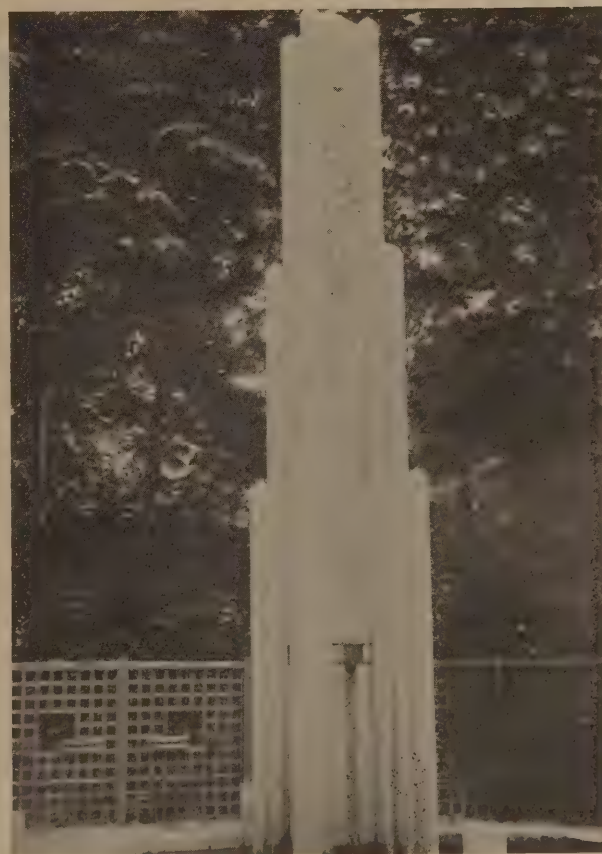
"Why a Louis XVI elevator, a Gothic type type-



Entrance, Looking Out to Quai d'Orsay



Courtyard with Statue; Polish Pavilion



Unique Fountain



Garden and Pavilions of the National Manufacturers of Sevres

writer, a Rococo wireless, a wood carved and inlaid body for your car, the wilderness of the African forest on your wallpaper, jellyfish-like lampshades, Dante's Inferno cast in concrete for the front entrance to your bank, and pottery of the middle ages for your drawing room? Why prefer the rough handwork of an artisan in wrought iron when we have perfect and polished steel bars at our disposal, more beautiful in their geometry and cheaper in

their cost? Do we still eat, on Sundays, peacocks presented on the table roasted with all their feathers? No! Well then, let us express our epoch in its own furniture; and, strange as it seems, we shall be following the "lesson of the past"! We will have our style and no more words in our vocabulary to explain the Decorative Arts. The entire Exposition might be described as a futile gesture,—if not a hopelessly lost opportunity for helpful accomplishment.



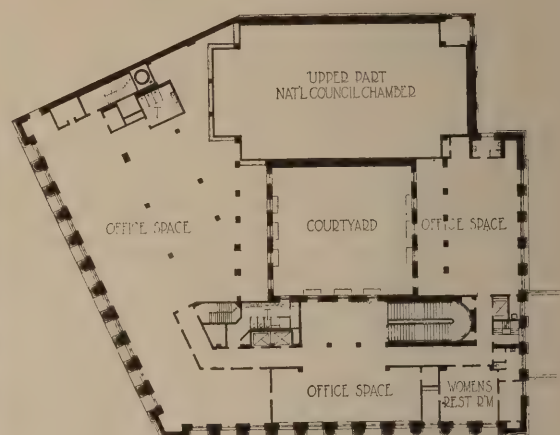
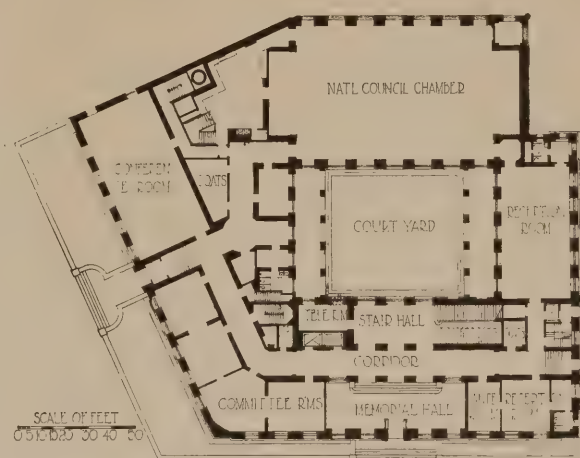
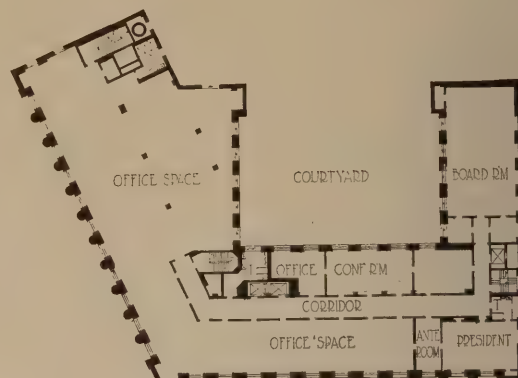
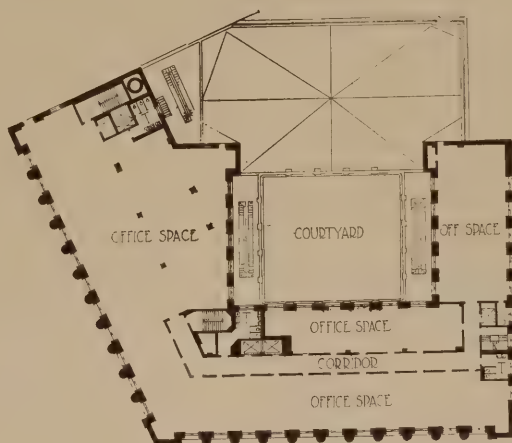
Belgian Pavilion, Illuminated



Photos. John Wallace Gillies

UNITED STATES CHAMBER OF COMMERCE, WASHINGTON
CASS GILBERT, ARCHITECT

Plans on Back

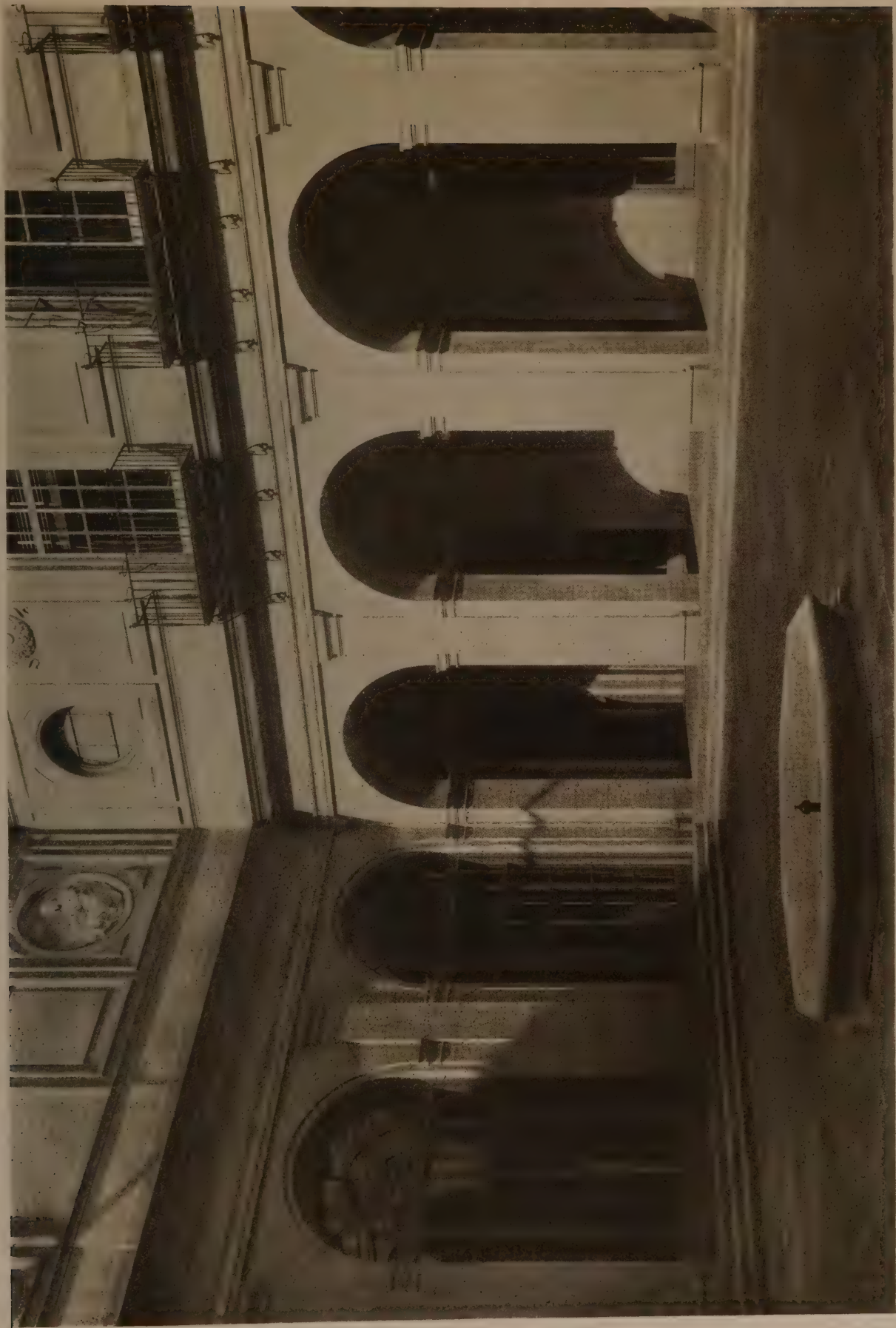


UNITED STATES CHAMBER OF COMMERCE, WASHINGTON

CASS GILBERT, ARCHITECT



DETAIL, MAIN ENTRANCE
UNITED STATES CHAMBER OF COMMERCE, WASHINGTON
CASS GILBERT, ARCHITECT



DETAIL, COURTYARD
UNITED STATES CHAMBER OF COMMERCE, WASHINGTON
CASS GILBERT, ARCHITECT



DETAIL, VESTIBULE
UNITED STATES CHAMBER OF COMMERCE, WASHINGTON
CASS GILBERT, ARCHITECT



DETAIL, VESTIBULE
UNITED STATES CHAMBER OF COMMERCE, WASHINGTON
CASS GILBERT, ARCHITECT



DETAIL, STAIR HALL
UNITED STATES CHAMBER OF COMMERCE, WASHINGTON
CASS GILBERT, ARCHITECT



NATIONAL COUNCIL CHAMBER
UNITED STATES CHAMBER OF COMMERCE, WASHINGTON
CASS GILBERT, ARCHITECT



RECEPTION ROOM



BOARD ROOM

UNITED STATES CHAMBER OF COMMERCE, WASHINGTON
CASS GILBERT, ARCHITECT

BUSINESS & FINANCE

C. Stanley Taylor, *Editor*

1926 to be Another Six-Billion-Dollar Building Year

EACH year for the past five years THE ARCHITECTURAL FORUM has conducted an extensive survey among architects and builders to determine the amount of building construction contemplated for the ensuing year. The method used includes the obtaining of confidential reports from thousands of sources covering six geographical divisions of the United States in 19 building classifications. These reports are carefully tabulated and correlated and the totals determined by a careful system of weighting. Thus the final forecast figures are established after months of careful research.

Each FORUM forecast during this five-year period has proved to be unusually close to the actual figures shown at the end of the year, and in all cases conservative, so that through the coöperation of the architectural profession this survey has become recognized as the most authoritative presentation of probable building activity. The allocation of activity

throughout the country is an almost certain indication of what will take place in the building industry.

In view of the fact that THE FORUM Forecast for 1926 indicates another 6-billion-dollar building year, probably equal to the record-breaking activity of 1925, it will be interesting to review briefly the building activity of the year 1925 in order that later comparisons may be clear. As this article goes to press the figures for the year 1925 indicate that approximately 6½ billion dollars were spent that year.

At the beginning of the year 1925 all conditions indicated that the year would probably equal 1924, which established a record up to that time; but no one anticipated completely the amazing volume to which the building totals have climbed. Records were broken everywhere during 1925, as will be seen by an examination of the accompanying chart (Figure 1) which shows the total value and volume of new building in 1925 as compared with each year since

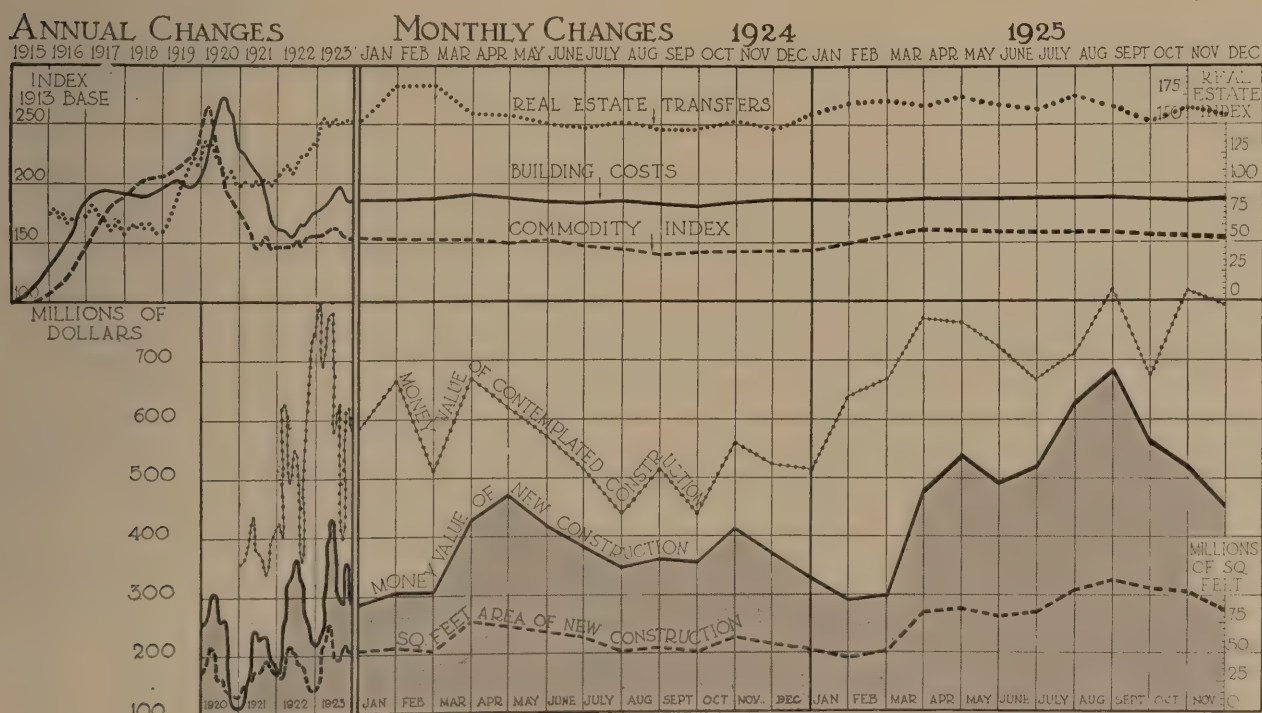


Fig. 1. The Building Situation at a Glance

Based on data obtained through The Forum Research Department; U. S. Chamber of Commerce; F. W. Dodge Corporation and Engineering News-Record

1920; it also indicates the trend of building costs, commodity costs and real estate transfers in the United States, very carefully recorded and tabulated.

The accompanying table (Figure 2) indicates the anticipated expenditures for new buildings during the year 1926, classified according to 19 types of structures and divided into six geographical divisions of the United States. This tabulation shows the amazing total of \$5,584,782,500, which will pass over the boards of architects and into actual construction during the year 1926. In addition to this vast sum to be spent for building materials and labor there must be considered the fact that in the small house field and that of industrial construction there is considerable building not developed from architects' plans, probably totaling another half-billion dollars, swelling an already colossal figure.

Thus it is predicted that 1926 will be another 6-billion-dollar building year, with certain changes in the relative proportions of activity in building types.

Each year the grand total of THE FORUM Forecast is broken up into percentages showing the anticipated activity in new building construction for each of the 19 building types in the six established geographical divisions of the United States. By comparing these percentages for 1925 and 1926 it is possible to ascertain the changing public demand for new buildings and to establish for each of the districts the relative activity which may be expected.

The first of the interesting details is to learn what, if any, shifting of public demand has occurred in

building requirements for the following six geographical divisions of the United States:

1. Northeastern States, including Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut.
2. North Atlantic States, including New York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia.
3. Southeastern States, including Virginia, North Carolina, South Carolina, Georgia and Florida.
4. Southwestern States, including Kentucky, West Virginia, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, Arkansas.
5. Middle States, including Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas.
6. Western States, including Montana, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Idaho, Washington, Oregon, California.

The comparison given shows that there will be approximately the same relative building activity in each of the six geographical divisions of the United States during 1926 that there was during 1925, with some decrease in the Northeastern and Middle States, and a considerable increase in the Southeastern States (due to the unusual activity in Florida).

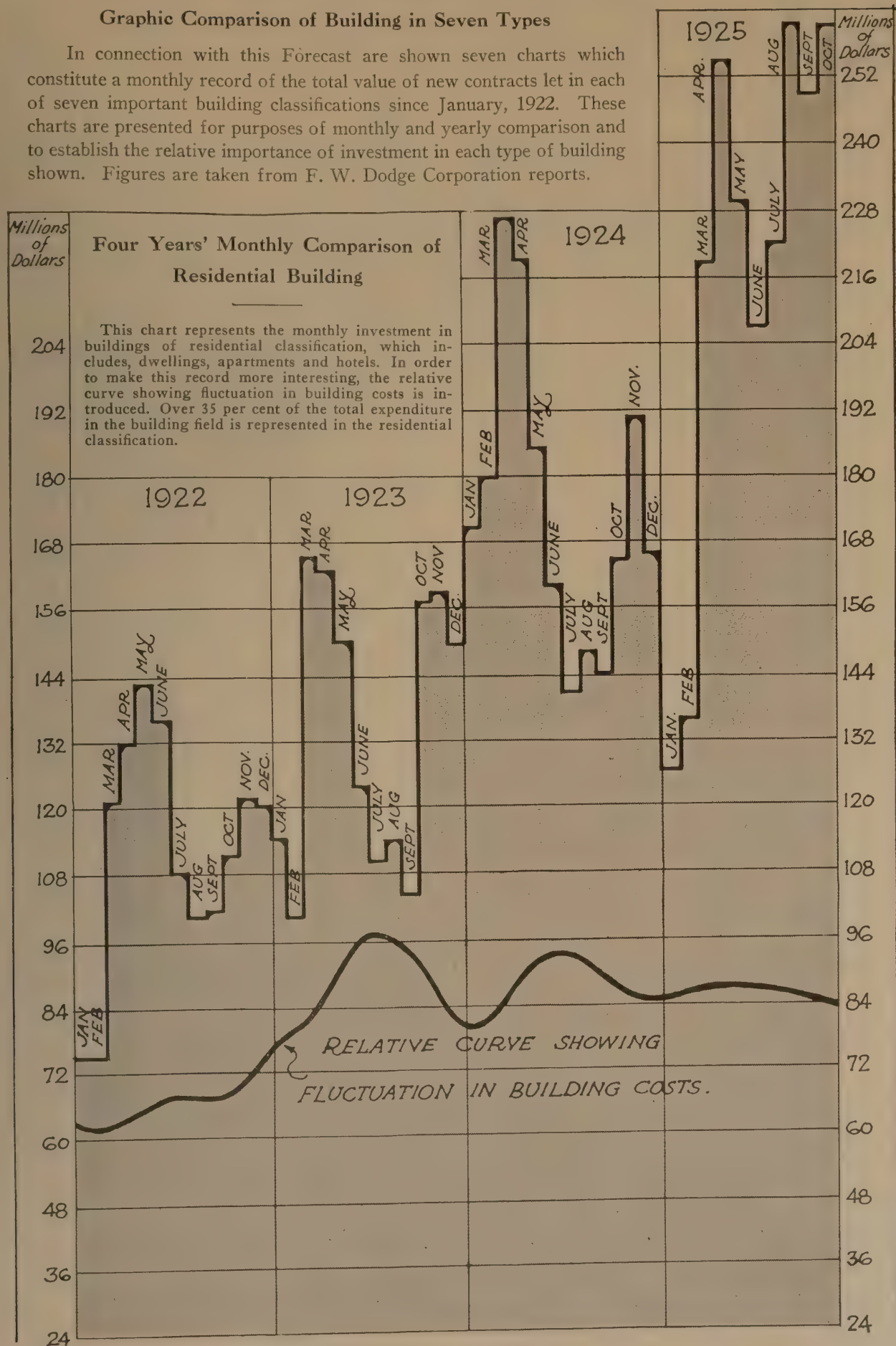
The table given here shows a comparison of public demand for new buildings in 1925 with that of 1926 for each of the six districts just indicated,—in other words, a comparison of the relative demand

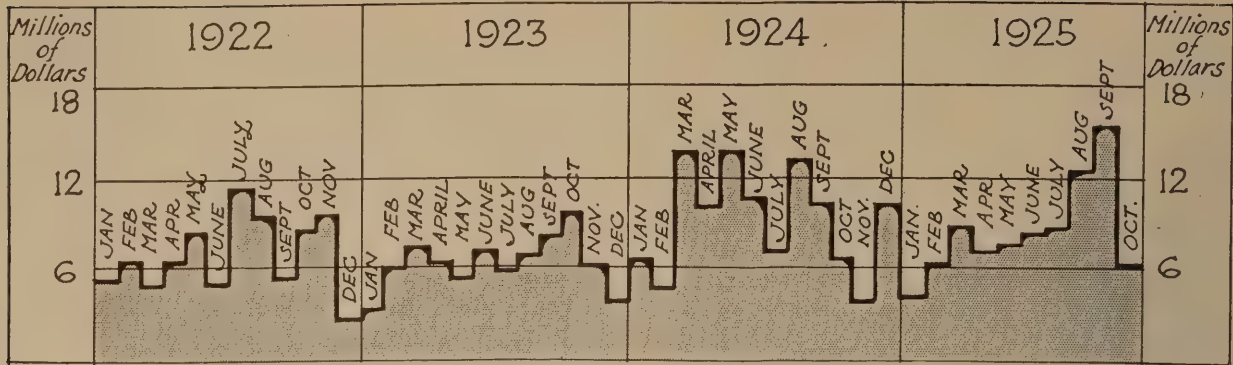
BUILDING TYPE	N. EASTERN STATES	N. ATLANTIC STATES	S. EASTERN STATES	S. WESTERN STATES	MIDDLE STATES	WESTERN STATES	U. S. A.
Automotive	24,262,500	43,042,500	9,970,000	9,877,500	49,877,500	15,072,500	152,102,500
Banks	18,295,000	55,550,000	10,022,500	22,135,000	59,317,500	20,930,000	186,250,000
Apartments	25,272,500	329,042,500	40,620,000	18,627,500	137,565,000	50,540,000	601,667,500
Apartment Hotels	8,487,500	52,850,000	12,712,500	9,425,000	71,927,500	36,612,500	192,015,000
Clubs Fraternal, etc.	15,837,500	79,845,000	18,437,500	15,727,500	92,137,500	33,697,500	255,682,500
Community Memorial	18,030,000	53,812,500	4,712,500	9,772,500	38,287,500	24,835,000	149,450,000
Churches	39,370,000	79,232,500	17,537,500	41,510,000	78,042,500	28,752,500	284,445,000
Dwellings (Under \$20,000)	11,635,000	104,227,500	20,312,500	13,675,000	49,012,500	30,277,500	229,140,000
Dwellings (\$20,000 to \$50,000)	9,985,000	49,217,500	10,415,000	12,040,000	35,225,000	9,142,500	126,025,000
Dwellings (Over \$50,000)	7,295,000	27,372,500	5,287,500	5,807,500	27,985,000	9,737,500	83,485,000
Hotels	45,275,000	131,125,000	59,747,500	40,522,500	240,480,000	68,035,000	585,185,000
Hospitals	35,700,000	112,662,500	8,925,000	16,045,000	87,410,000	49,150,000	309,892,500
Industrial	42,632,500	248,917,500	6,527,500	29,810,000	130,962,500	24,542,500	483,392,500
Office Buildings	38,727,500	240,527,500	38,932,500	37,017,500	212,005,000	96,337,500	663,547,500
Public Buildings	18,597,500	79,242,500	19,760,000	19,325,000	49,057,500	39,382,500	225,365,000
Schools	68,815,000	255,202,500	23,017,500	38,400,000	236,992,500	68,217,500	690,645,000
Stores	8,660,000	38,027,500	11,150,000	7,032,500	43,415,000	14,932,500	123,217,500
Theaters	7,600,000	26,462,500	6,517,500	10,490,000	99,632,500	23,755,000	174,457,500
Welfare, Y. M. C. A., etc.	5,775,000	35,077,500	7,435,000	1,907,500	12,295,000	6,327,500	68,817,500
Total Value of New Buildings	450,252,500	2,041,437,500	332,040,000	359,147,500	1,751,627,500	650,277,500	5,584,782,500
Per Cent.....	8.1	36.6	5.9	6.4	31.4	11.6	

Fig. 2. 1926 Prediction by Districts in 19 Building Classifications
(States Included in Districts are Given on This Page)

Graphic Comparison of Building in Seven Types

In connection with this Forecast are shown seven charts which constitute a monthly record of the total value of new contracts let in each of seven important building classifications since January, 1922. These charts are presented for purposes of monthly and yearly comparison and to establish the relative importance of investment in each type of building shown. Figures are taken from F. W. Dodge Corporation reports.





Four Years' Investment in New Hospitals and Institutions

for new buildings in each district for 1926 as compared with 1925. The changes in these percentages forecast the changes of construction activity from a geographical viewpoint:

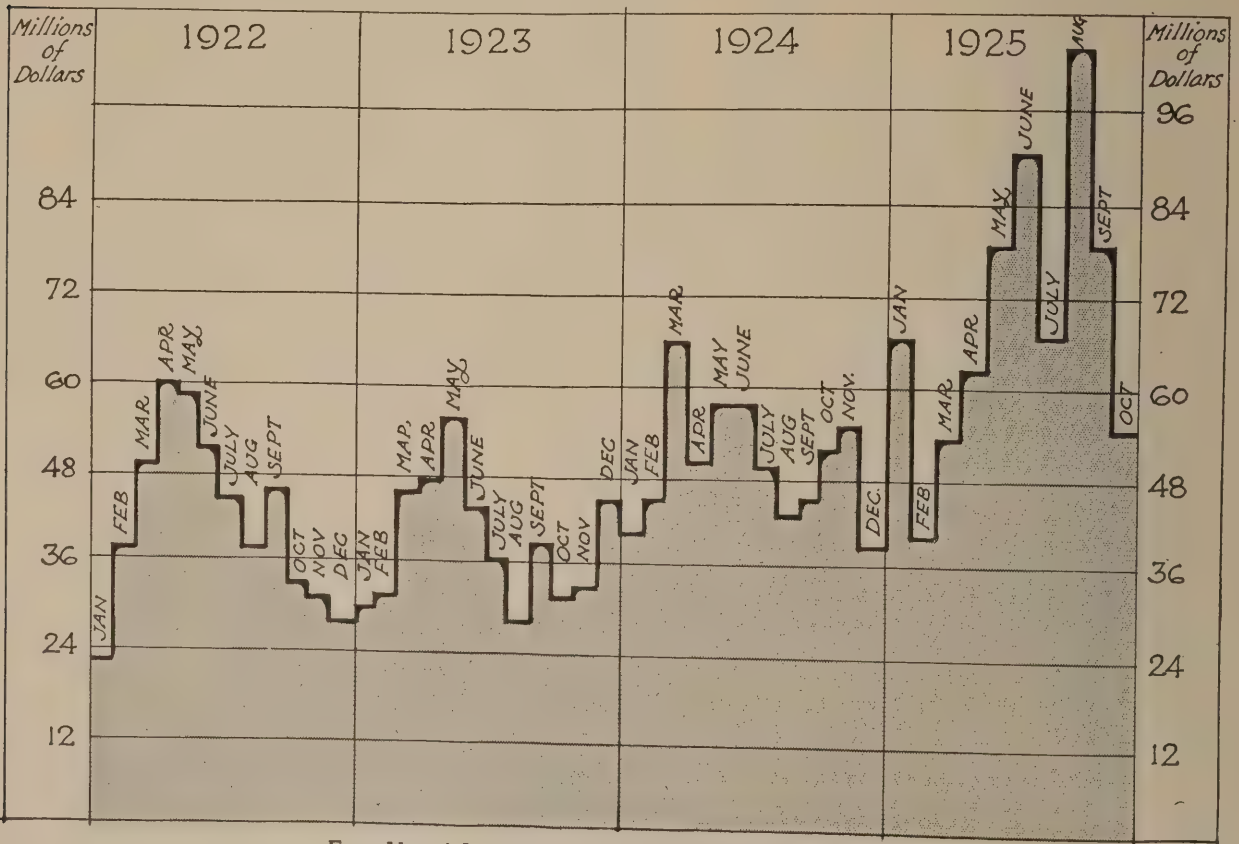
Public Demand for New Buildings

	1925	1926
	Per cent	Per cent
1. Northeastern States	8.4	8.1
2. North Atlantic States	36.3	36.6
3. Southeastern States,	3.6	5.9
4. Southwestern States	6.3	6.4
5. Middle States	32.4	31.4
6. Western States	12.9	11.6

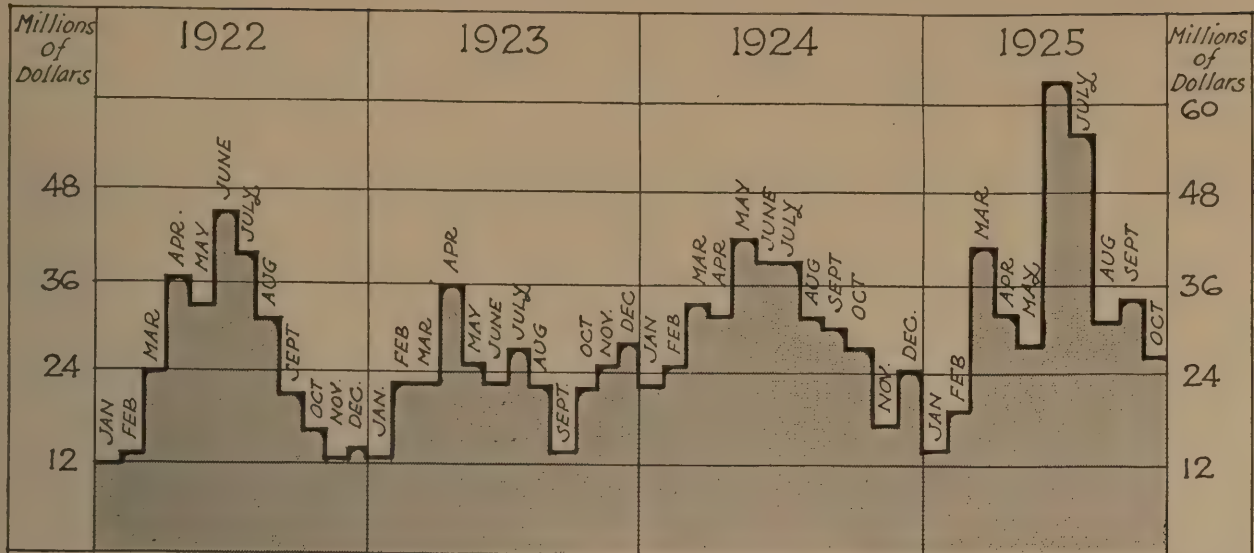
In the course of the research work involved in establishing this forecast for 1926, THE ARCHI-

TECTURAL FORUM has had the opportunity of making an interesting series of observations as to the changing character of new building in the United States. The accompanying percentage tables indicate the change in public demand for new buildings; but it may also be noted that the general character of materials and workmanship in buildings is constantly improving, an indication encouraging indeed.

The high cost of building, together with increased real estate values, has during the past few years provided a forced education for the investing public in this field, indicating the fallacy of poorly considered planning and the use of inferior materials and workmanship. The great effort in the planning of buildings today is to eliminate all waste space and provide a maximum of rental or utility efficiency,



Four Years' Investment in New Commercial Buildings



Four Years' Investment in New Schools and College Buildings

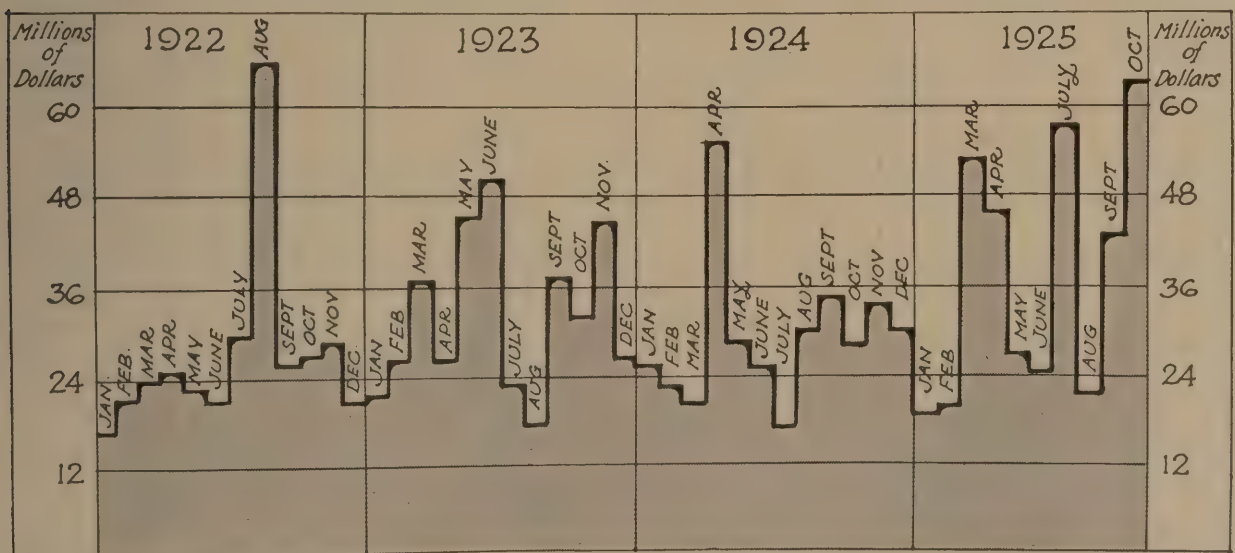
at the same time attempting definitely to reduce depreciation and maintenance cost through good architectural specifications and sound building practice.

A highly important factor in all forecasts of this nature is the background of economic conditions. If business conditions in the United States were not good, with sound promise of so remaining for several years, there might be expected a definite curtailment of building activity,—a slowing down of the great momentum established during the past few years. But conditions are good, with definite signs of stability, and the building industry is the indicator of conditions; so with the entire economic situation favorable, there is little fear of a break in public confidence or any basic business change which will interrupt the anticipated program of another 6-billion-dollar building year during 1926.

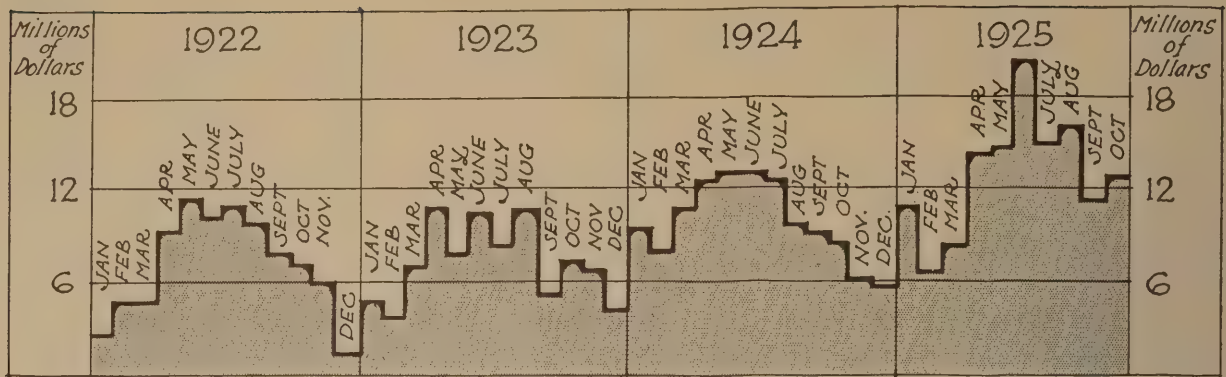
There is some talk of the building shortage having been met—of rentals coming down—of building again assuming its normal activity. What is a

“normal” building year at the present time? Surely it cannot be the pre-war normal. The population of the United States has increased materially since 1914; the cost of building has increased, the standards of housing American life and business have been raised; the demand for buildings is greater.

All is well with the building industry. It is going about its business seriously, contributing to the wealth and comfort of the nation. Some idea of the magnitude and importance of the construction industry may be gained from a statement recently made by Secretary of Labor Davis in which he said: “More than 11,000,000 of our people are dependent for their living upon the construction industry, and 22 per cent of all the skilled and unskilled labor of the country is engaged in the building branch alone. Some 250,000 freight cars are required to handle the materials. Our building bill is \$200 per year for each family in the United States. It is truly the chief barometer of the business of the country.



Four Years' Investment in New Factory Buildings



Four Years' Investment in New Churches

When construction gains, prosperity is with us. It is the great outstanding influence for good or bad in our financial progress, and has been for many years."

Architects are busier than ever before,—a sure sign of great building activity to come. The number of plans being filed is constantly increasing,—another sign of activity which is never known to fail.

THE ARCHITECTURAL FORUM anticipates and predicts that approximately the following number of new structures will be added to the building census of the United States during the year 1926.

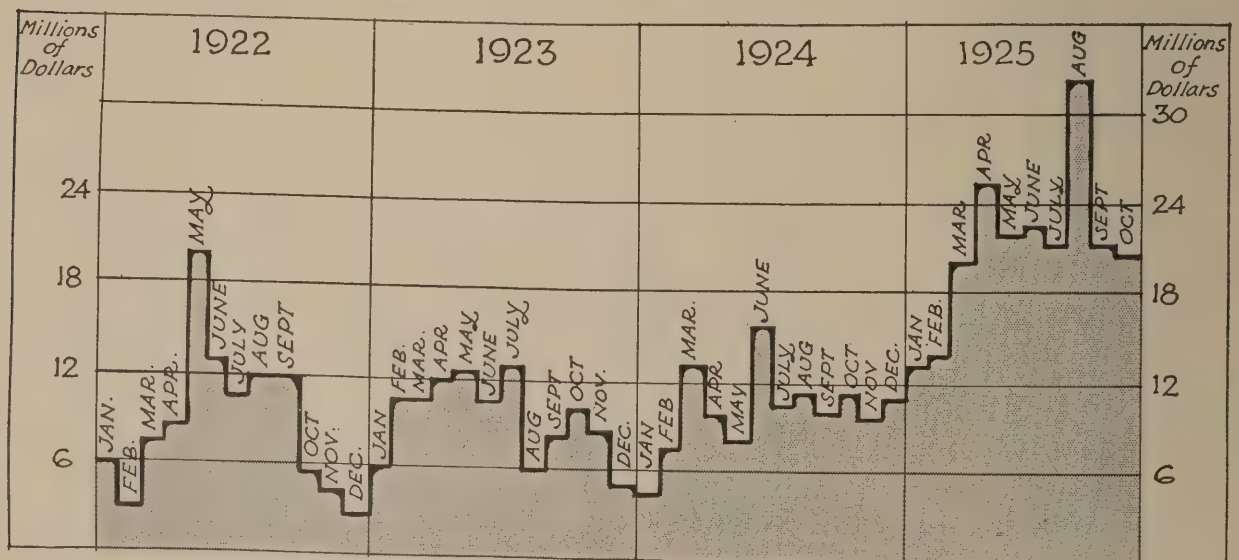
The total number of building permits which will be issued for structures of every kind, including alteration projects, will be approximately 700,000.

There will be constructed in the field of new buildings about:

Automotive Sales and Service Buildings—large	3,174
Automotive Sales and Service Buildings—small	6,740
Private Garages	274,000
Bank Buildings—large	1,320
Bank Buildings—small	4,350

Apartment Buildings—large and small ..	28,950
Apartment Hotels	1,240
Club and Fraternal Buildings	2,170
Community and Memorial Buildings	1,104
Churches	3,160
Dwellings, under \$10,000, including farm	193,000
Dwellings, \$10,000 to \$20,000	42,000
Dwellings, \$20,000 to \$50,000	14,700
Dwellings, above \$50,000	3,190
Hotels, under 50 rooms	1,874
Hotels, over 50 rooms	1,414
Hospitals	1,117
Industrial Buildings—large and small	9,782
Office Buildings	3,074
Public Buildings	972
Schools, small	2,156
Schools, large	1,742
Stores	7,842
Theaters	1,645
Welfare, Y. M. C. A., K. of C., etc.....	670
Farm Buildings, not including dwellings..	163,420
Institutions and Libraries	3,634

TOTAL NEW BUILDINGS FOR 1926, 778,440



Four Years' Investment in New Club and Fraternal Buildings



The Ebell Club, Long Beach, Calif.

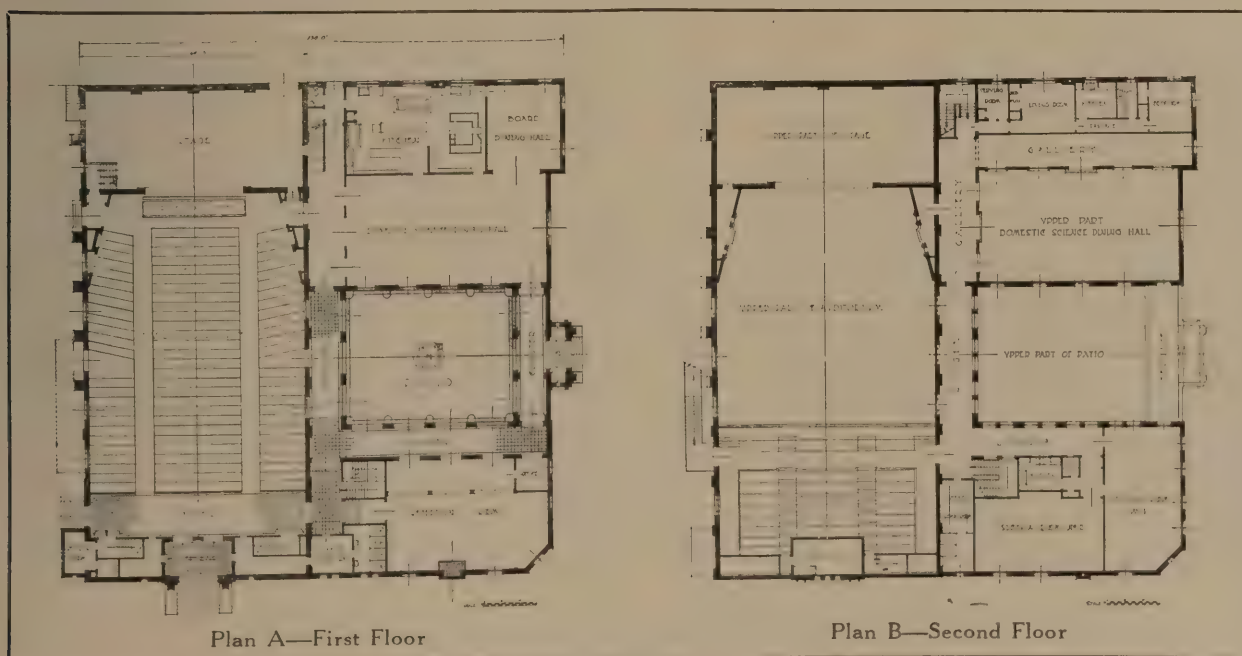
C. T. McGREW & SONS, ARCHITECTS

By HAROLD J. ASHE

IF the Ebell Club had built its new home in New York instead of Long Beach, the plan would have called for a building perhaps 50 feet wide and 150 feet high. It would have been a typical New York clubhouse, differing from other buildings of the same type chiefly in the fact that a large auditorium with a practical stage for theatrical performances is an important feature of the building's plan.

Fortunately, land values are not as high in Long Beach as in New York, so that instead of a tall, narrow building, faced with brick or stucco and enriched with Spanish Renaissance details, a group of low, semi-detached buildings was possible for the

architectural expression of this active and interesting women's civic organization. The three chief divisions of the plan are logically and successfully indicated in the design and layout of the entire group. The low, two-story buildings which house the reception room and committee rooms on one side and domestic service dining hall, kitchen and living quarters on the other side, are connected by arcaded cloisters which enclose an open patio. An open archway, richly ornamented with Spanish details, leads into the connecting cloister between the two buildings. At the rear of this group of low buildings and patio is the large auditorium. It has a seat-



ing capacity, including the balcony, of 1200 and is the largest in Long Beach. The theater building rises to nearly twice the height of the low front buildings and connecting cloister, forming an excellent background for them. The auditorium of the theater is accessible not only through the large public entrance on Third Street but also through five doorways opening into the cloister and buildings which face Cerritos Avenue, thus having ample entrances.

When the building committee of the Ebell Club considered plans for a new building to house their various activities they had foremost in their minds, among other salient features, a possible arrangement and size of windows which would permit a maximum amount of sunshine to enter into the various rooms of the clubhouse, thus curtailing as much as possible the use of artificial light. The architect successfully evolved a plan Spanish and spacious in character. Typical of Spanish architecture, a patio occupies the center of the building. Open two-story cloisters or arcades surround the four sides of the patio. This is paved with flagstones and has a low and shallow pool built of Spanish tiles at its center.

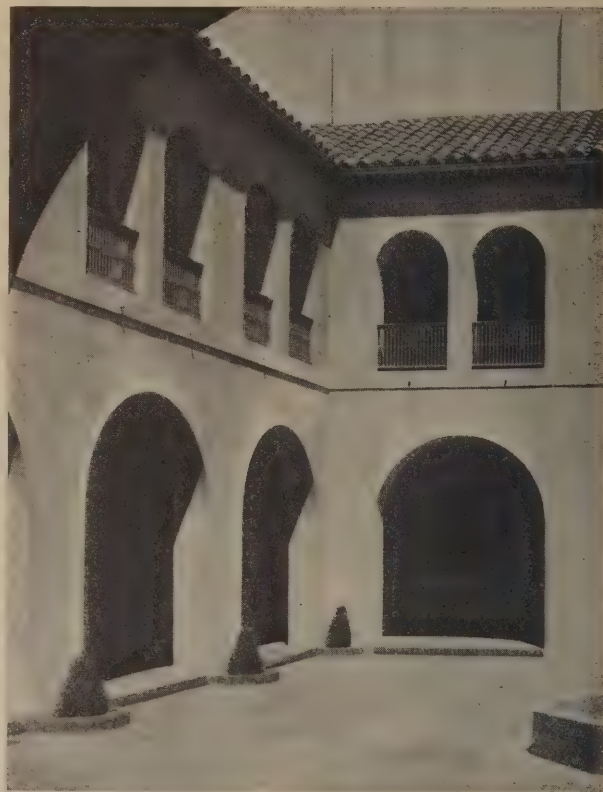
The main entrance of the club leads directly into a cloister which connects the two main parts of the club itself. On the first floor a large reception room, office, cloak room and lavatory are located at the left. At the right, on entering the first floor, is a domestic service dining room, a small board dining room, and a completely equipped kitchen. The second floor of the building at the left of the entrance

contains a few spacious committee or class rooms, with small kitchens, cloak room and lavatory. Part of this floor is occupied by the arcaded loggia which extends around two sides of the patio. The second floor of the building at the right of the entrance is largely taken up by the upper part of the domestic service dining hall, a gallery which extends along two sides of this hall, and a complete apartment for the resident manager of the clubhouse. The plan of the theater, which occupies at the rear nearly half of the site on which the club is located, possesses an auditorium with overhanging balcony and deep stage. A feature of this plan, which affords many lateral exits, includes a wide foyer, spacious entrance vestibule, retiring room and two flights of steps to the balcony. At the rear of the balcony is a perfectly equipped projection room. The theater is separated from the club proper by a cloister corridor which can be closed off entirely by metal doors.

So large and numerous are the windows and door openings in the auditorium that artificial lighting is never required in the day time. The club is so well planned and the various departments so thoroughly separated and isolated that it is possible for 500 people to be banqueting in the dining hall, for committee meetings to be in progress in the "section rooms," for guests to be dancing in the open patio, and for 1200 people to be attending a performance in the theater without any one of these groups disturbing another. In fact it would be possible to conduct several functions simultaneously in these buildings.



Detail, Entrance



The Patio

The Ebell Club, Long Beach, Calif.
C. T. McGrew & Sons, Architects

Report of the Jury

LEHIGH PORTLAND CEMENT HOME COMPETITION

By AYMAR EMBURY II, Chairman

THE Jury selected to judge this Competition noted with pleasure the high quality of design as well as the technical excellence of the presentation of the greater part of the many drawings submitted. The judgment was as interesting as it was difficult, because of the necessity of choosing between many designs of almost equal excellence. On the other hand, the Jury, composed entirely of architects familiar with the country house problem, felt that there was evident in a great many of the designs submitted a regrettable tendency to evade the spirit while conforming to the letter of the program. This program was obviously intended to produce plans of five-room, one-story houses or of six-room, two-story houses for people in moderate circumstances and to be built on suburban lots of average sizes; therefore, drawings of houses intended apparently for eccentric occupancy were regarded with disfavor by the Jury, regardless of the quality of their architecture or their interesting character.

Following the same thought, the Jury gave preference to houses which were designed to meet usual conditions over those in which the arrangement of

rooms or the placing of the entrances indicated the treatment of special cases. There was also little attention paid in the designs to the requirements as to masonry partitions; several schemes in other ways excellent were not included in the prize group for this reason. The Jury found also that several very charming designs could be considered only as sketches, because of a false scale, which made them appear in the drawings far larger than was correct, and which would have made them look like toy houses if they were actually constructed.

Of all the designs submitted in both classes, the Jury decided that the two five-room bungalows placed first and second stood in a class by themselves, because their designers had shown real appreciation of the nature of the problem in producing houses with the maximum usable space in proportion to the areas of the floors, with proper arrangement for privacy, with an intelligent relation between rooms, all this given a simple, charming and reasonable architectural treatment. The Jury felt that these houses would build well and economically, and would give the owners as much real comfort as five rooms can



Jury for the Lehigh Portland Cement Home Competition

Left to Right—David Adler, Chicago; Aymar Embury II., New York; Charles C. Loring, Boston; Harrie T. Lindeberg, New York, and D. West Barber, Knoxville, Tenn.

afford. They involve no sacrifice of comfort to picturesque effect, and no elaborate detail has been dragged in to hide an inability to cover up a bad mass. The deciding factor between the two was the greater compactness of that placed first. The design placed third was of only slightly less merit and possessed the same factors of solid design and realization of the problem as the other two. That placed fourth showed too great a tendency to break up an already small mass without sufficient reason; it was also marred by having a living and dining room over-large in comparison with the bedroom and kitchen, a defect which injured an otherwise excellent scheme and detracted from its value.

None of the two-story houses quite approached, in distinction, the two bungalows placed first and second. The problem is, of course, enormously more difficult; a six-room, two-story house inevitably resembles a packing box to an alarming extent, and those solutions which were most picturesque showed either roofs beginning at the first story level or buildings so underscaled as to appear like twelve-room houses at a small scale. The Jury felt that honesty and comfort were as essential as picture book architecture, with the result that the design placed first was chosen because of its simple, compact and adequate plan combined with an exterior of considerable excellence. It is not an extraordinary piece of architecture, but it is logical and sound, both structurally and architecturally. The design placed second has the same qualities. The designer recognizes frankly the "packing box" quality, and so disposes his openings as almost to convince one of the desirability of the form. It is a delightful and buildable scheme. The design placed third is an excellent drawing on a good plan, but it seemed to the Jury rather a boiled-down large than a genuinely excellent small house. The house placed fourth might have been placed higher had the designer paid greater attention to his construction. The Jury felt especially that the exterior presented interesting and sound qualities of design, which were, unfortunately, somewhat obscured by its presentation.

Several of the mention drawings deserve special comment.* That submitted by Charles Crombie is of extraordinary charm, but adapted only for a special location and marred by having bedrooms under the roof slope; yet it is so pleasant and so simply planned that it was with regret that it was awarded only a mention. The Jury greatly admired the design submitted by Louis C. Rosenberg and Oliver Reagan, but felt that it was an over-ambitious scheme for the problem, the same being true of that submitted by Amedeo Leone. The amusing drawing and excellent architecture of Rufus A. Sherman's design were neutralized by the special conditions required to execute it as well as by a duplication of function in the alcove and dining room.

In conclusion, the members of the Jury wish to

say that they have thus stressed the defects in the plans rather than their merits, because these same defects are apparent in practically every competition of this type, and can readily be avoided by genuine adherence to the spirit as well as the letter of the program which is formulated for each competition.

PRIZE AND MENTION WINNERS LEHIGH PORTLAND CEMENT HOME COMPETITION

Judged on Friday, November 13, 1925.

GRAND PRIZE, \$1,000, to Angus McD. McSweeney, 3245 Octavia Street, San Francisco.

Winner of first prize in Class A (Drawing No. 48-A), and of Mention in Class B (Drawing No. 57-B).

CLASS A

First Prize, \$500, Drawing No. 48-A

Angus McD. McSweeney, 3245 Octavia Street, San Francisco.

Second Prize, \$300, Drawing No. 56-A

H. A. Surman, 800 Marquette Bldg., Detroit.

Third Prize, \$200, Drawing No. 113-A

Emil Backstrom & Herbert Magoon, c/o B. G. Goodhue Associates, 2 West 47th Street, New York.

Fourth Prize, \$100, Drawing No. 97-A

Francis Keally, 28 East 39th Street, New York.

10 Mentions in Class A at \$50 Each

Drawing No. 107-A, Charles Crombie, 906 Marquette Bldg., Detroit.

Drawing No. 23-A, R. M. Eskil, 1602 "H" Street, Sacramento, Calif.

Drawing No. 72-A, Shirley C. Horsley, 205 So. Juniper Street, Philadelphia.

Drawing No. 22-A, Amedeo Leone, 800 Marquette Bldg., Detroit

Drawing No. 68-A, O. H. McCord, 1 Quarry Road, San Rafael, Calif.

Drawing No. 46-A, William Rankin, 51 East 42nd Street, New York

Drawing No. 98-A, John J. Regan and Daniel W. Murphy, 155 East 42nd Street, New York.

Drawing No. 94-A, Louis C. Rosenberg and Oliver Reagan, 122 East 41st Street, New York.

Drawing No. 12-A, Rufus A. Sherman, 356 Milbank Road, Upper Darby, Pa.

Drawing No. 74-A, William E. Willner, 401 West 118th Street, New York.

CLASS B

First Prize, \$500, Drawing No. 91-B

John Floyd Yewell & Harry Starr, 10 East 43rd Street, New York.

Second Prize, \$300, Drawing No. 33-B

Walter L. Moody, 1528 6th Street, Santa Monica, Calif.

Third Prize, \$200, Drawing No. 108-B

Frederick H. Reimers, Tip Top Tribune Tower, Oakland, Calif.

Fourth Prize, \$100, Drawing No. 68-B

James N. Holden & Harold A. Rich, 177 State Street, Boston.

10 Mentions in Class B at \$50 Each

Drawing No. 46-B, Sara Leenhouts and Geo. F. Spinti, 3rd, 424 Jefferson Street, Milwaukee.

Drawing No. 57-B, Angus McD. McSweeney, 3245 Octavia Street, San Francisco.

Drawing No. 69-B, William B. Millward, 1686 Forest Avenue, Portland, Me.

Drawing No. 92-B, J. Pendlebury, c/o McKim, Mead & White, 101 Park Avenue, New York.

Drawing No. 17-B, Fred E. Pond, Santa Cruz, Calif.

Drawing No. 54-B, William Rankin, 51 East 42nd Street, New York

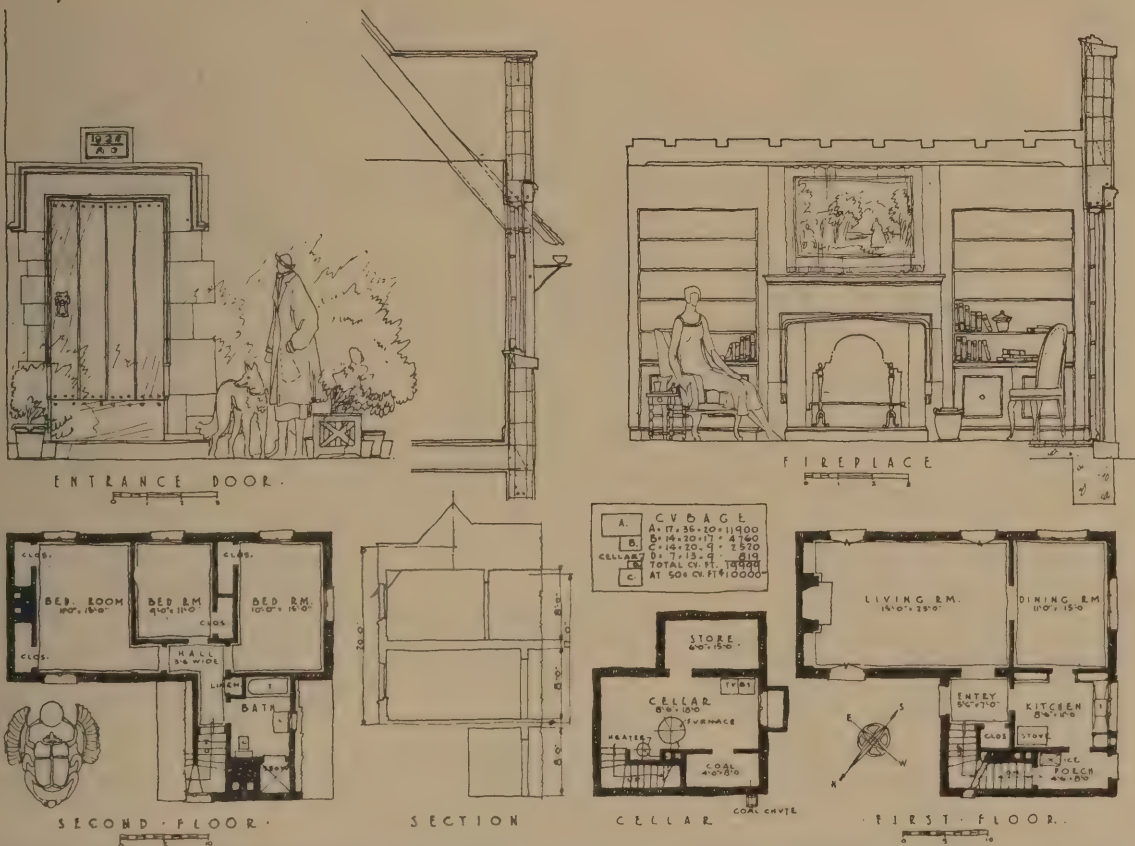
Drawing No. 78-B, G. Dewey Swan, c/o H. T. Lindeberg, 2 West 47th Street, New York.

Drawing No. 5-B, Carl C. Tallman, Seward Bldg., Auburn, N. Y.

Drawing No. 64-B, Harry L. Wagner, 355 N. Lawn Avenue, Kansas City.

Drawing No. 29-B, James D. Wickenden, 2627 College Avenue, Berkeley, Calif.

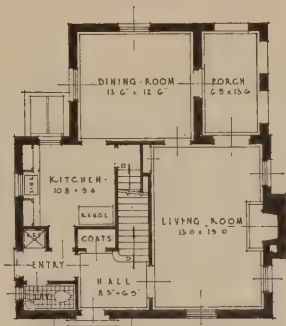
*Those who wish to examine the 28 prize and mention drawings may obtain a book containing the full set by addressing the Service Department, THE ARCHITECTURAL FORUM, 383 Madison Avenue, New York.



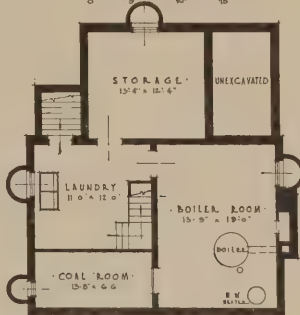
• SIX • ROOM • LEHIGH • PORTLAND • CEMENT • HOUSE •

Grand Prize and First Prize Design, Class A

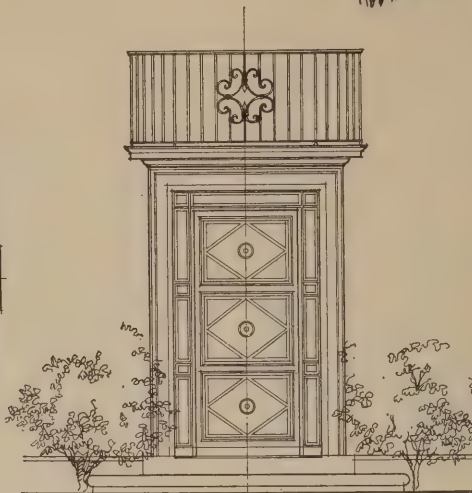
Submitted by Angus McD. McSweeney, San Francisco



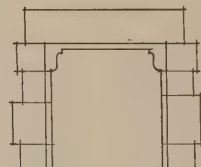
FIRST FLOOR PLAN
SCALE 1" = 10' - 0"



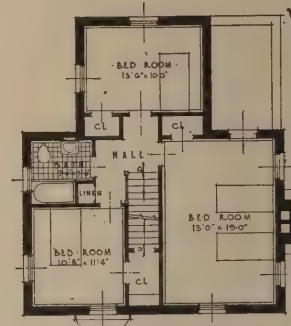
CELLAR PLAN
SCALE 1" = 10' - 0"



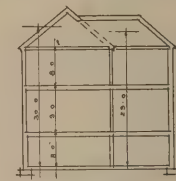
ENTRANCE DETAIL
SCALE 1" = 10' - 0"



FIREPLACE DETAIL
SCALE 1" = 10' - 0"



SECOND FLOOR PLAN
SCALE 1" = 10' - 0"



SECTION
SCALE 1" = 10' - 0"

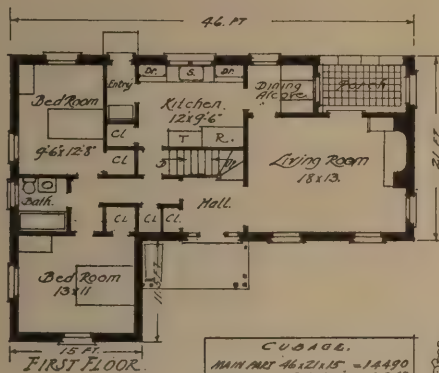
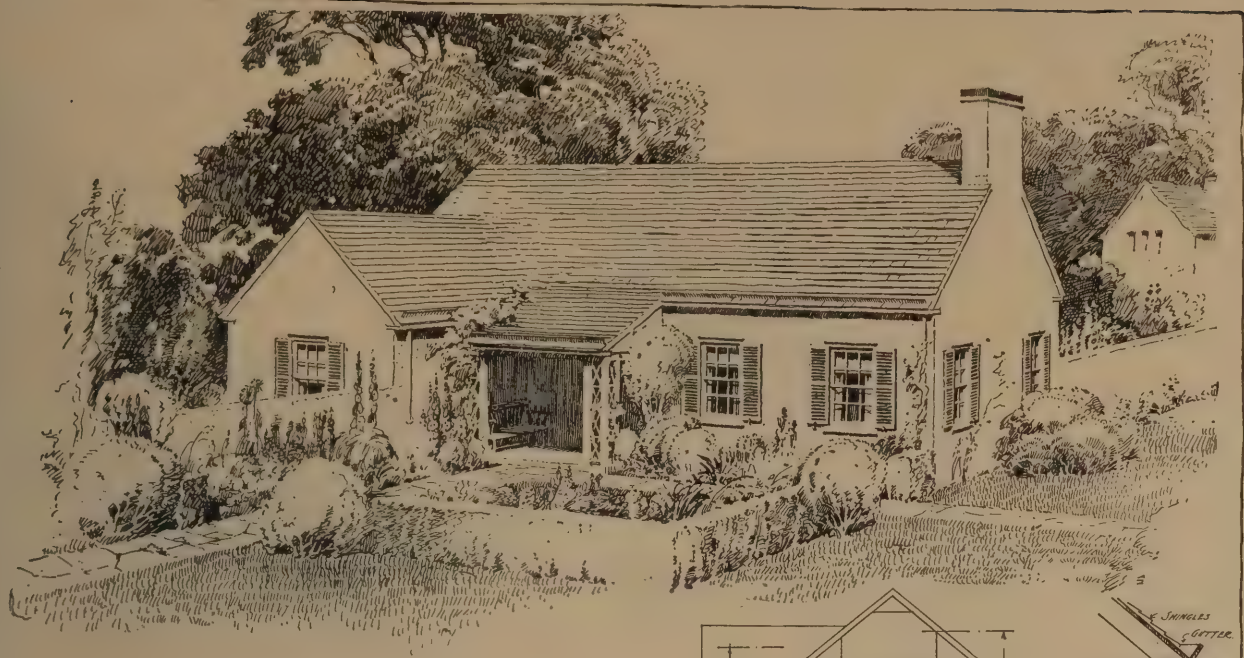
CUBICAL CONTENTS	
MAIN HOUSE	50'0" x 27'0" x 10'0" = 13,500
DINING RM-BAY	13'0" x 16'0" x 25'0" = 8,000
PORCH	8'0" x 15'0" x 17'0" = 2,040
TOTAL	23,540

DETAIL SECTION
SCALE 1" = 10' - 0"

SUBMITTED BY "THE KID HIMSELF"

SIX ROOM LEHIGH PORTLAND CEMENT HOME

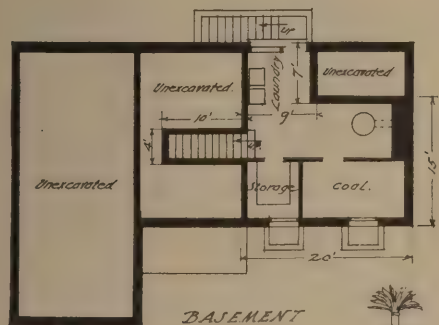
Second Prize Design, Class A
Submitted by H. A. Surman, Detroit



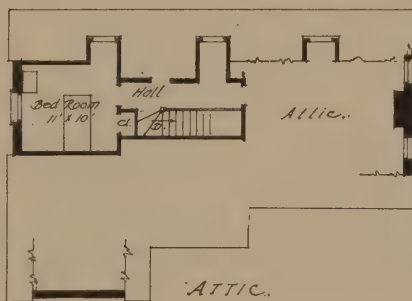
SCALE OF PLANS
0 5 10 15 FT.

CUBAGE.

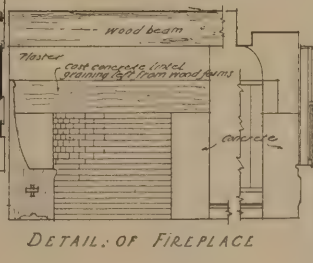
MAIN FLY 46'x21'x8" = 14490
WING 15'x15'x8" = 2243
ATT. ROOM 12'x5'x10'x4" = 150
B.S.M.T. 15'x20'x7" = 2100
" 9'x7'x7" = 441
" 10'x4'x7" = 280
19704



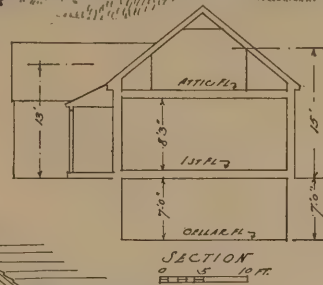
BASEMENT



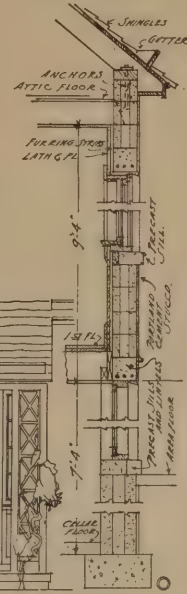
ATTIC.



DETAIL OF FIREPLACE



SECTION
0 5 10 FT.



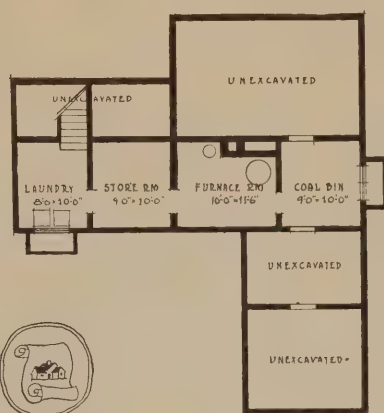
WALL SECTION
0 SCALE 3 FT.

SCALE OF DETAIL.
0 5 FT.

FIVE-ROOM LEHIGH PORTLAND CEMENT BUNGALOW

First Prize Design, Class B

Submitted by John Floyd Yewell and Harry Starr, New York



SUBMITTED BY

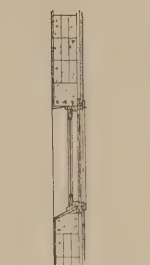
BASEMENT PLAN



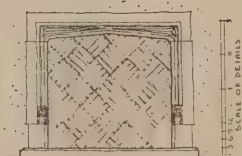
CUBAGE

FLOOR PLAN

BASEMENT	49'0" x 11'6" x 7'0" = 3500.5
FRONT MASS	21'0" x 14'6" x 15'0" = 3654.0
CENTRAL MASS	25'0" x 22'6" x 15'6" = 8710.7
KITCHEN & DINING	18'0" x 18'6" x 12'6" = 9162.5
TOTAL CUBIC CONTENT	19,835



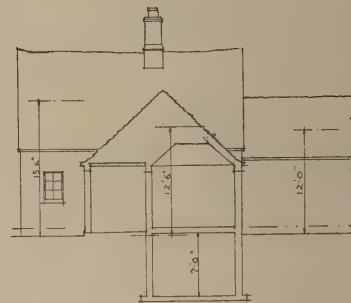
EXTERIOR WALL SECTION



FIREPLACE



CHIMNEY DETAIL

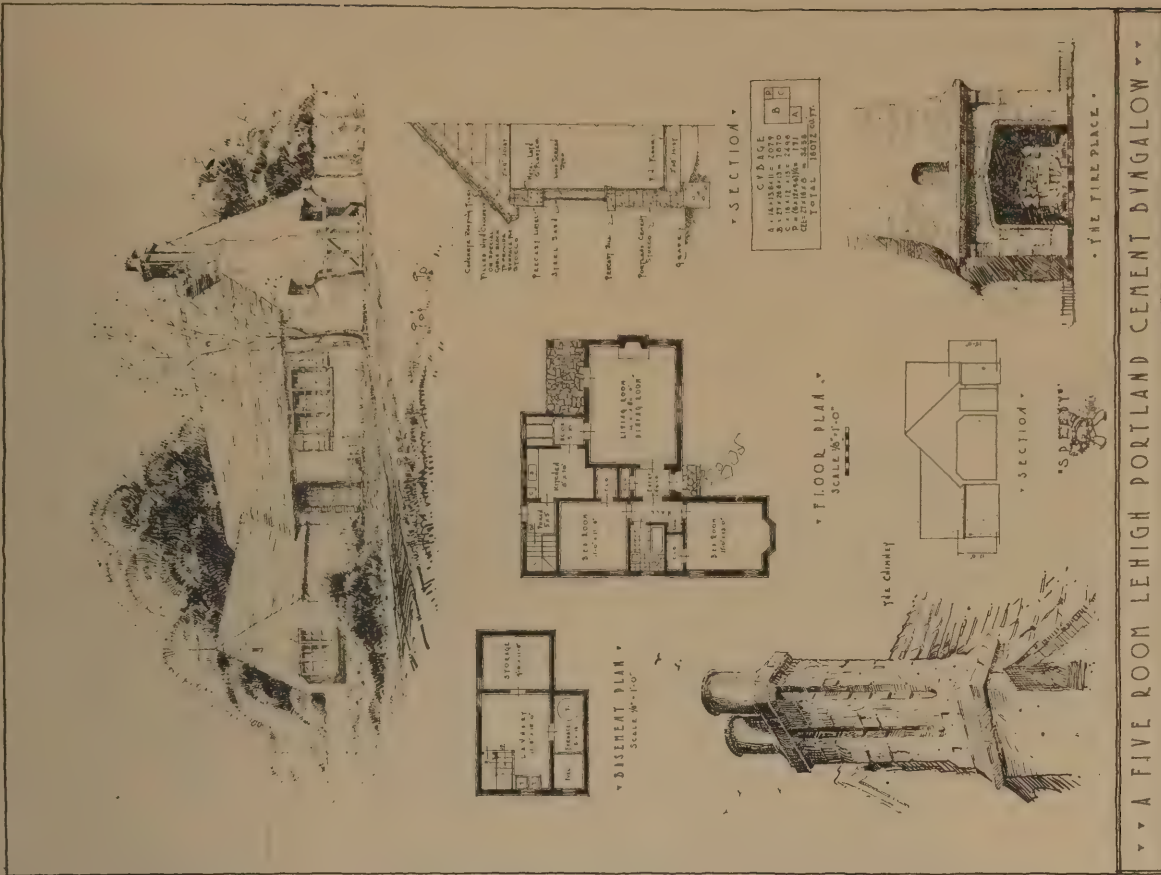


VERTICAL SECTION

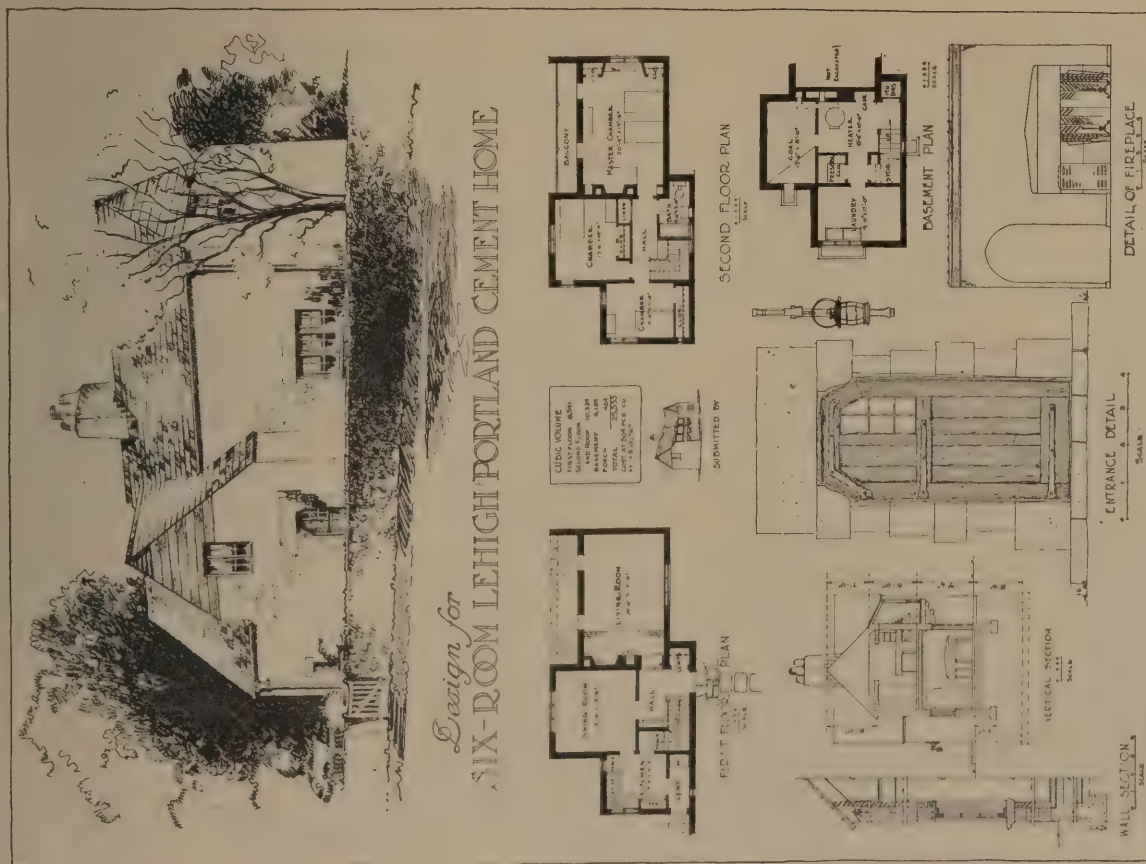
Five Room Lehigh Portland Cement Bungalow

Second Prize Design, Class B

Submitted by Walter L. Moody, Santa Monica, Calif.



Third Prize Design, Class B
Submitted by Frederick H. Reimers, Oakland, Calif.



Third Prize Design, Class A
Submitted by Emil Backstrom and Herbert Magoon, New York

"Mediterranean" Architecture in Florida

By MATLACK PRICE

As a result of the present great real estate and building activity in Florida, a good deal of interest has been directed toward the trend of architecture there,—and it is evident that there is noticeable a marked division as between popularity with the public on one hand and skepticism felt by architects on the other hand. As usual, the true measure of architectural merit in the new architecture of Florida lies somewhere between the public's enthusiasm and the architects' mental reservations. Certainly it is not all as good as many people, carried away by its novelty, think it is; nor is it as lacking in merit as many architects, disturbed by its novelty, feel constrained to say it is. It has merits and defects.

No real valuation can be placed on this Florida architecture without first definitely accepting its setting and the life of which it is a part. Florida is not a serious place. It is a region of winter

resorts, some gay and some restful; a place to which people come to escape from everything that reminds them of the North. It is a place of clear skies, of temperatures mild to semi-tropical; a place, in short, where architecture may well assume its least serious and most festive guise,—where, indeed, it *should* assume such a guise, if it is to be at all appropriate to its setting. It must assume a glad, gay, holiday garb.

The first architectural type that suggested itself as being suitable for such places as Florida and southern California was the Italian villa, and, later, the Spanish villa; and it is quite generally imagined that all houses in Florida even now *are* Spanish; although the architects there have gone much further, and developed a style that has already been given the name of "Mediterranean," as most appropriate.

While the predominating traits in these Mediterranean villas are unmistakably Spanish, the



In the Garden of "Villa Vizcaya," Cocoanut Grove
Paul Chalfin, Architect



Pool at "El Jardin," Residence of John Bindley, Cocoanut Grove, Fla.



Detail of Entrance, "El Jardin," Cocoanut Grove, Fla.
An adaptation of Plateresque ornament

designers have given themselves a still wider latitude in the direction of picturesque possibilities by adapting elements here and there from other lands about the shores of what used to be regarded as the "sea in the middle of the world,"—the old Mediterranean. Thus, from Italy, as well as from the French Riviera, they borrowed some of the characteristics of the smaller villas and farm buildings; from Spain, any details or mannerisms that served the purpose in hand, whether the origin was Castilian or Moorish; and along the north coast of Africa they discovered hitherto unused sources of architectural adaptations in the villas and city houses of Tunis and Algiers.

For reasons obscurely racial and geographic, there exists between or among these various styles a marked affinity, and this affinity has worked directly into the hands of the architects who are building in Florida today. Certain traits of the various Mediterranean types are common to all, such as the prevalence of stucco walls and tiled roofs in Italy, Spain and along the Riviera, and it is rather in matters of detail that variations occur. Italian ironwork, for example, differs from that of Spain and the Riviera. Spain contributes certain Moorish elements, together with certain of her own, such as polychromed woodwork and characteristic ironwork. Arcaded loggias and colonnades owe their inspiration to Italy. In the matter of profiles, the tall gabled masses with slightly pitched tiled roofs are characteristic of the Riviera as well as of Spain and Italy. From north Africa more, no doubt, will be adapted than has so



A One-Story House at Coral Gables, Fla., Roofed with Old Spanish Tiles

far appeared, for there is much that can be blended into the design of the more familiar Spanish and Italian houses, and which would add to the interest.

One of the houses at Coral Gables, at Miami, shows the result of adapting the style of buildings in Algiers, and the adapting has been excellently done. At the same place a small inn has been built in a manner definitely Moorish, and in view of the great difficulty and frequent failure attendant upon designing anything Moorish, I think this adventure was remarkably successful. There were, of course, many enforced compromises, but scale was well maintained throughout, and the patio, with its wooden gallery at the second floor and the double arcade of Moorish arches screening its fourth side, is an excellent bit of design in an admittedly difficult style.

At Palm Beach the architectural style is rather "set," as compared with the more adventuresome work that is being done at Miami. There are a number of more serious Italian villas at Palm Beach and, more recently, some consistent Spanish villas. The Gulf Stream Golf Club on the Ocean Boulevard between Palm Beach and Miami is one of the most attractive informal Spanish-Italian adaptations that I know of in this country. It has decided charm.

At Miami, as representing the more formal trend of architecture there, no architect is likely to forget the great Deering villa, which is entirely Italian in its manner. Architecturally there is little to be said about it that has not already been said, but it is interesting to see and record how this type of house ages



Details of an Entrance Facade, Coral Gables, Fla.
An excellent use of textured stucco



The Coral Gables Inn; a Moorish Adaptation
M. L. Hampden, Architect



A House Designed on Algerian Precedent
Walter di Garmo, Architect

in this country. When I went through the house and its great gardens, both had been closed for the summer, and the illusion of real antiquity in this house that is not quite ten years old was remarkable. In the grounds some part of this illusion came from the real antiquity of virtually all the garden sculpture; but discounting this there was a sense of exploring an ancient villa, and this was due to the interesting discolorations of the stucco work, and especially of the coral rock. This rock, of an open, porous structure, possesses some look of age even when it is freshly quarried, and as it has now acquired rust stains and weather stains, it seems to have been touched by the hand of the centuries. The grottoes under one of the terraces, largely made of coral rock, seemed indeed to have been there since the Renaissance, and I photographed one of them, as I have always believed them to represent as excellent an expression of Baroque as anything that has been done in this country. Another imposing villa at Cocoanut Grove, not far from the Deering villa and not quite so well done, is "El Jardin," in mass suggesting an Italian villa, but detailed in the Plateresque manner of the Spanish Renaissance. It will improve very much with age, that softening agency which has dealt so effectively with the old villas of Italy, giving them much of their charm.

Across Biscayne Bay from Miami lies the long white key that is Miami Beach, marked architecturally by its two great hotels and a great many villas, both large and small. The profile of the Flamingo



General View of House Shown at Upper Left Hand Corner of This Page
Walter di Garmo, Architect

Hotel (and very interesting it is) is almost too familiar to call for special comment here. The newer of the two hotels, the Nautilus, is interestingly detailed in a modified Baroque version of Spanish Renaissance, with some Plateresque passages here and there. Of the villas, some are typically Spanish and others, of more recent design, are in the new Mediterranean manner, with picturesquely unexpected profiles, outside stairways, old patios and polychromed exterior woodwork. If there was ever a real opportunity for architects to legitimately indulge in a little play, it is in Florida—and especially in and about Miami, which might be called a playground for winter visitors from everywhere.

Undoubtedly the most notable contribution to the development of the Mediterranean style, in villas, bungalows, and in larger buildings as well, is being made at Coral Gables, the 4,000-acre suburb of Miami. Here is an entire city being planned and carried out under a definitely appointed architectural supervision, and the result is highly consistent and remarkably interesting. The buildings at Coral Gables comprise not only villas and bungalows, but apartment houses, hotels, churches, schools, a bank and post office, country clubs and a number of industrial buildings. The roadways converge on spacious circular plazas, which are architecturally treated with the most picturesque sort of Spanish gateways, pergolas and wall fountains. The houses display an infinite variety of profile, though all are based in design on the Mediterranean composite of styles, and all are consistent in material and general technique.



Window with Grille in Spanish Fashion, Coral Gables
An excellent use of simple ironwork



A Building Typical of What Has Come to Be Known as the "Mediterranean Style," Coral Gables



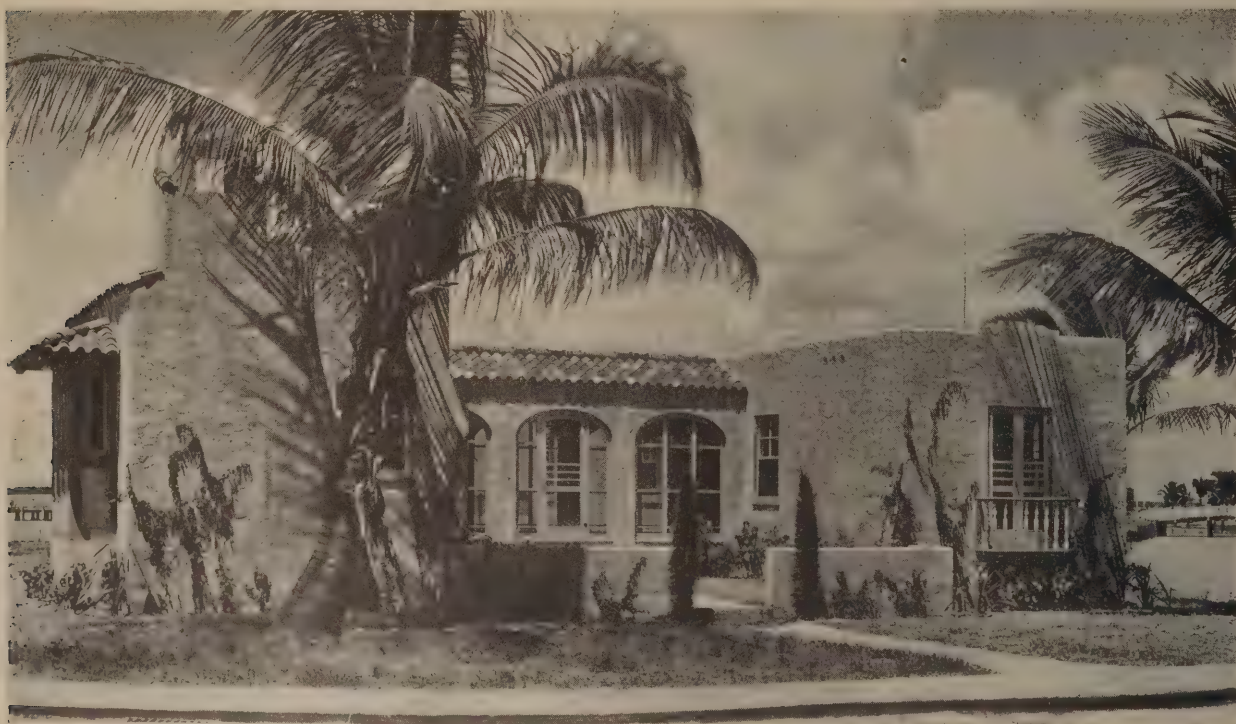
A Garden Grotto at "Villa Vizcaya"
Paul Chalfin, Architect



At the Entrance to "Villa Vizcaya"
Paul Chalfin, Architect

At Coral Gables restrictions require that all houses be built of coral rock or finished in stucco, or combined stucco with coral rock. This coral rock, and another local stone called "Ojus," afford the initial advantage of apparent antiquity in picturesque design. Tinted stucco combined with coral or Ojus

rock gives at once the effect of age-old buildings, and to heighten the effect, Coral Gables has been very fortunate in securing great quantities of old Spanish roof tiles from Cuba. In the matter of coloring the stucco a great deal of experimental work has been done, and the mixing of pigments to achieve



A Small "Mediterranean Type" Villa at Miami Beach, Fla.



A Polychromed Wood Grille, Coral Gables



Some Details of Garden Architecture; "Villa Vizcaya"

harmonious effects is in the province of the art director. The new Miami-Biltmore Country Club and Hotel, a very important group, are being built from the designs of Schultze & Weaver of New York, who are also the architects of the Nautilus Hotel at Miami Beach and a building for the use of

a Miami newspaper owned by ex-Governor Cox.

Inevitably, the architectural liberty effectively and picturesquely expressed by the intelligent architects of Miami is being mistaken for license by the unintelligent, and by the many speculative contractors and builders who are putting up hastily constructed



One of Several "Mediterranean Type" Residences at Coral Gables

bungalows and small apartments. The result, as in southern California, is appalling, for without some understanding of the several Mediterranean types it is impossible to hope for anything that is even architecturally possible. And just before the beginning of the vogue for Spanish and Mediterranean houses, people in Miami built a good many of that particularly un-architectural type popularly known as the "California bungalow," which is the bane of the Pacific coast. Obviously, however, we must discount these, and look for promise in the architectural future of Florida rather in the really interesting and picturesque houses that are being designed in the Mediterranean blend of styles, as well as in the more studious and pure style versions of the Spanish and Italian Renaissance, several examples of which exist.

The architectural opportunity is unique, and there



Detail of Terrace, Hotel Nautilus, an Adaptation of the Plateresque
Schultze & Weaver, Architects

can be no fair or adequate criticism of what is being done in Florida, and especially in Miami, without a first-hand observation of the place and its life, and of the particular architectural needs and the tastes which the newer Florida villas are being designed to meet.

The unprecedented growth and real estate boom of Palm Beach and Miami are not restricted to the eastern shore of Florida. Such places as Orlando and St. Petersburg are experiencing a similar, although smaller, boom. The use of Mediterranean precedents for the recent architectural work at Palm Beach, Coral Gables, and Miami is also found in some of the newer hotels and houses of the other cen-

tral and southern Florida resorts. Florida has indeed become, to a greater extent than ever before, the playground of this country, where the social aristocracy and ambitious *nouveau riche* meet together.



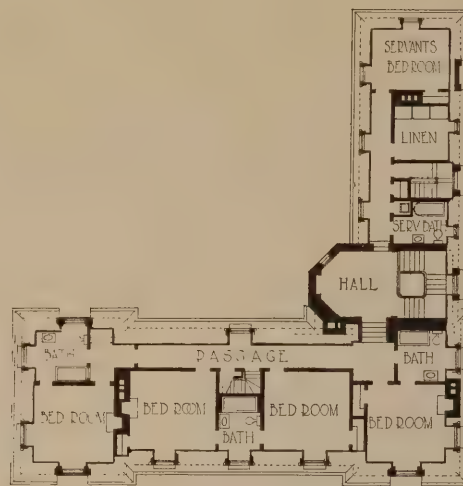
A Typical House at Coral Gables; Built of Stuccoed Tile and Coral Rock



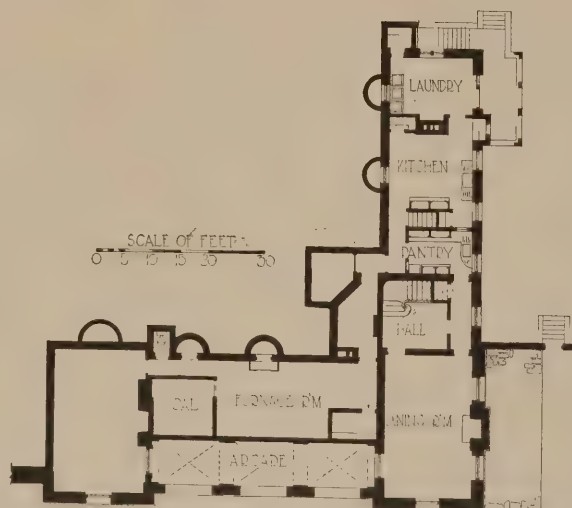
Photos. George H. Van Ande

HOUSE OF PHILIP H. GOODWIN, ESQ., SYOSSET, N. Y.
PHILIP H. GOODWIN, ARCHITECT

Plans on Back



SECOND FLOOR



BASEMENT



FIRST FLOOR

PLANS, HOUSE OF PHILIP H. GOODWIN, ESQ., SYOSSET, N. Y.

PHILIP H. GOODWIN, ARCHITECT



LAWN FRONT, HOUSE OF PHILIP H. GOODWIN, ESQ., SYOSSET, N. Y.
PHILIP H. GOODWIN, ARCHITECT



DETAIL, HOUSE OF PHILIP H. GOODWIN, ESQ., SYOSSET, N. Y.
PHILIP H. GOODWIN, ARCHITECT



TERRACE, HOUSE OF PHILIP H. GOODWIN, ESQ., SYOSSET, N. Y.

PHILIP H. GOODWIN, ARCHITECT



DETAIL, "BIG ROOM," HOUSE OF PHILIP H. GOODWIN, ESQ., SYOSSET, N. Y.
PHILIP H. GOODWIN, ARCHITECT





DETAIL, "BIG ROOM," HOUSE OF PHILIP H. GOODWIN, ESQ., SYOSSET, N. Y.
PHILIP H. GOODWIN, ARCHITECT



DETAIL, "BOOK ROOM," HOUSE OF PHILIP H. GOODWIN, ESQ., SYOSSET, N. Y.
PHILIP H. GOODWIN, ARCHITECT



ENTRANCE HALL, HOUSE OF PHILIP H. GOODWIN, ESQ., SYOSSET, N. Y.
PHILIP H. GOODWIN, ARCHITECT

The George Nixon Black House, Ellsworth, Me.

By MARGARET O. GOLDSMITH

WITH bricks from Philadelphia and workmen from Boston, Colonel John Black started to build his ten-room house at Ellsworth, Maine, on the estate known as "Woodlawn," given to Mrs. Black by her father. In 1805 the house was completed. Changes either in structure or in furnishings have been so few that today, in the ownership of the builder's grandson, George Nixon Black, it stands intact as a good example of an early federal homestead of the more luxurious type. Few structures of this period still existing illustrate more clearly the strong hold upon America gained by the restrained, refined architecture which characterized the early years of the nineteenth cen-

tury,—a type founded partly upon fashions current in England and partly due to the contact with France which followed the Revolution and which endured for a half-century thereafter. In America all this assumed the form of a delicate, graceful classicism, —occasionally a trifle "thin," but as a rule developed at a scale which gave it sufficient robustness to render the type so enduringly satisfying that it has never ceased to be charming. The type is as alluring as it was a century ago.

The exterior composition reveals a rectangular one-story wing at each end of the main two-story structure, a survival of pre-Revolutionary building style. But the disposition of rooms, and especially



Front, The George Nixon Black House, Ellsworth, Me.



THE GEORGE NIXON BLACK HOUSE; VIEW SHOWING FRONT AND WEST WING



LIVING ROOM, THE GEORGE NIXON BLACK HOUSE



Hall and Stairway, the George Nixon Black House

the plan of the hall, show the tendency of the times toward greater flexibility and privacy. Instead of a long hall with stairway running through the center of the house, we find that the front door in the left wing leads into a small entrance hall, and that access to the stairs and to the parlor and dining room is not to be had until one had passed farther into the main hall back of these two front rooms. This main hall has the slightly elliptical shape, with circular stairs around an open well, favored by Bulfinch in Boston and by Jefferson in Virginia—a type stately indeed.

Domestic architecture today offers no better plan for so separating the stairs from the entrance hall and for throwing the entire front of the main house, commanding a magnificent view, into the two main living rooms. The special needs of the original owners were otherwise provided for; offices of the estate were located in the left wing next the entrance hall; the kitchen, known as the "middle kitchen," was in the right wing, and other service rooms in an ell at the rear. Proportions are admirable. The main house is 49 by 41; wings are 24 feet, 6 inches by 22 feet, 9 inches; the hall is 20 feet by 18 feet,—sufficiently large for a rather formal type.

The interior architectural style can be judged from the illustration of the hall seen through the parlor doorway. The sweeping curve of the stairs, rising in easy treads, is carried into the lines of the baseboard, which in this house is all that survives

of the paneled wainscoting of an earlier period. William Pain's "Practical House Carpenter," republished in Philadelphia in 1797, contains plans for such stairs and the spiral terminal for the rail. The cut work of the risers in classic scroll design is typical. The ornament is in the period's best taste.

Among the distinctly Republican features of the exterior are to be noted the low, almost invisible hipped roof, contrasting with the bold height of the chimneys, six in number. The eaves balustrade shows the tendency for formal architectonic design in the combination of long solid panels broken by short stretches of Classic balusters over the windows. The earlier balustrades were a succession of balusters with square, paneled, corner posts.

In the matter of window and door openings, this house is typical of other brick houses of the time. Frames are small in scale and are set in from the wall surface. Sashbars are narrow. Plain lintels of local marble offset the rich texture of the small bricks laid in Flemish bond. The porch windows in three sashes extend to floor level, as in Bulfinch's Boston houses—several on Beacon Hill—of a similar style.

The outstanding feature of the facade and likewise the most interesting classic innovation exemplified in the house is the one-story porch, four bays deep, extending across the entire front. Jefferson was among the first to realize the impressive possibilities of the long porch gallery, here worked out more in the spirit of McIntyre's excellent entrance porticos.

There is the same freedom in combining different orders which is seen in Salem houses—Corinthian cornice, modillions, Ionic volutes, plain and well proportioned shafts, and the double torus of the Corinthian pedestal. The simple entablature, with its pleasing mouldings, contrasts with the refinement of the beautiful porch balustrade, which is made up of sheaf motifs, instead of the usual lattice work. In keeping with the unity of the entire facade are the square posts of this porch balustrade, located over each column and in line with the open stretches of the eaves balustrade. The repetition of the sheaf design for the balustrade of the wings, but on a larger scale, emphasizes the horizontal lines of the composition as a whole. One notes the difference in scale between the modillions of the porch cornice and the eaves cornice as an instance of the early Republican builder's ability to handle wood out of doors, with due regard for its values of light and shade and with sympathetic understanding of scale.

In its setting of stately elms and smoothly clipped lawn, the house carries an effect of breadth and restraint. It recalls the post-Revolutionary era of tranquil dignity, which appropriated Greek forms of architecture, sometimes successfully and sometimes not, because of an inner kinship with the civilization that had evolved them. It is rare to find well preserved a homestead which so faithfully represents the type of houses built by prosperous citizens during the earlier days of the nation's life.

Some Spanish and Italian Details

By ISIDOR RICHMOND AND EUGENE T. KENNEDY

THE wide popularity of the early Spanish and Italian architectural styles is due partly to the fact that they may often be adapted for modern buildings at comparatively moderate cost, and partly also to the fact that they involve the use of detail which is almost invariably pleasing. The examples illustrated here, of which measured drawings are included, qualify in both of these respects. The "Granite Doorway in Avila" forms the main entrance to the well known "Domus Misericordie." The door proper, arranged in two folds, is flanked by two engaged columns which support a simple entablature, above which is placed a bas-relief showing St. Martin dividing his cloak with a beggar. Nothing could be simpler than this use of well known architectural motifs, and yet the entrance possesses dignity and

distinction lacking in many a more elaborate design. It has formed the basis of several modern doors. The "Casa de Dona Maria Le Brava, Salamanca,"

exhibits a strikingly successful use of voussoirs in its low, arched door. It owes much also to the band of ornament in relief which enframes the small wrought iron balcony, the window, and the panel of carving which are placed just above the door. Added dignity is conferred upon this highly satisfying facade by the low roof of tile overhanging the narrow cornice below, and yet the design makes use of little or nothing which could not be executed in terra cotta or cast stone. The third detail, the "Side Door of the Church of St. Chrysogono, Rome," shows an interesting use of columns supporting a broken pediment, in which is placed an ornament somewhat resembling a cartouche.



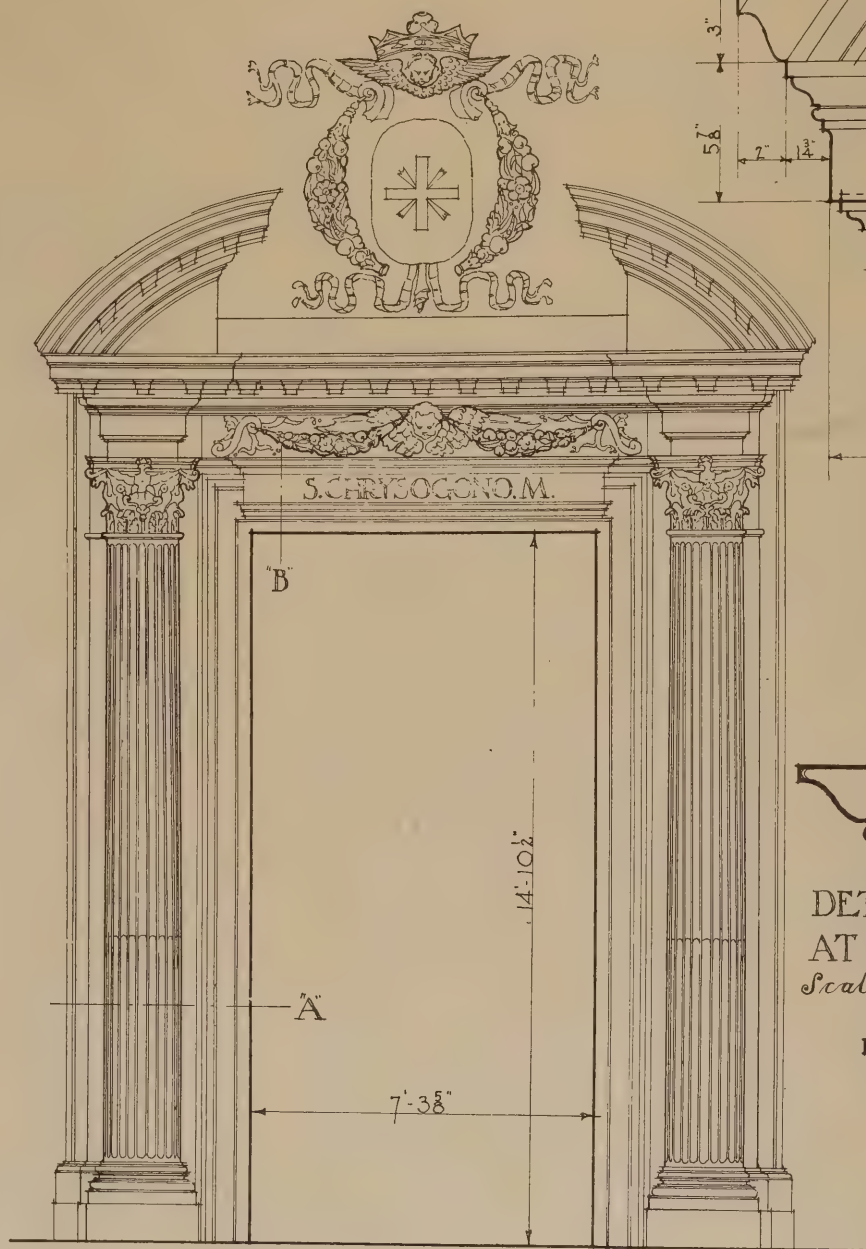
Facade, Casa de Dona Maria la Brava, Salamanca



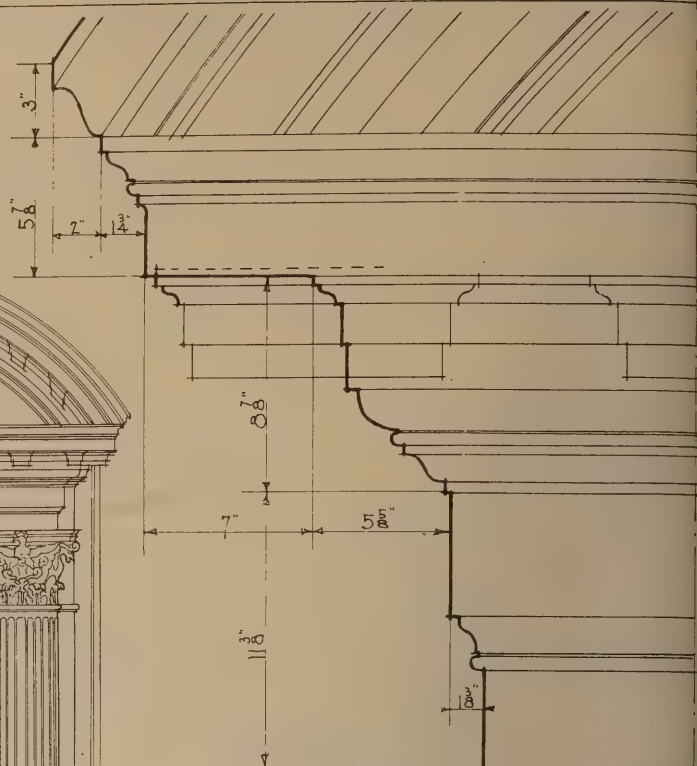
Detail, Granite Doorway in Avila



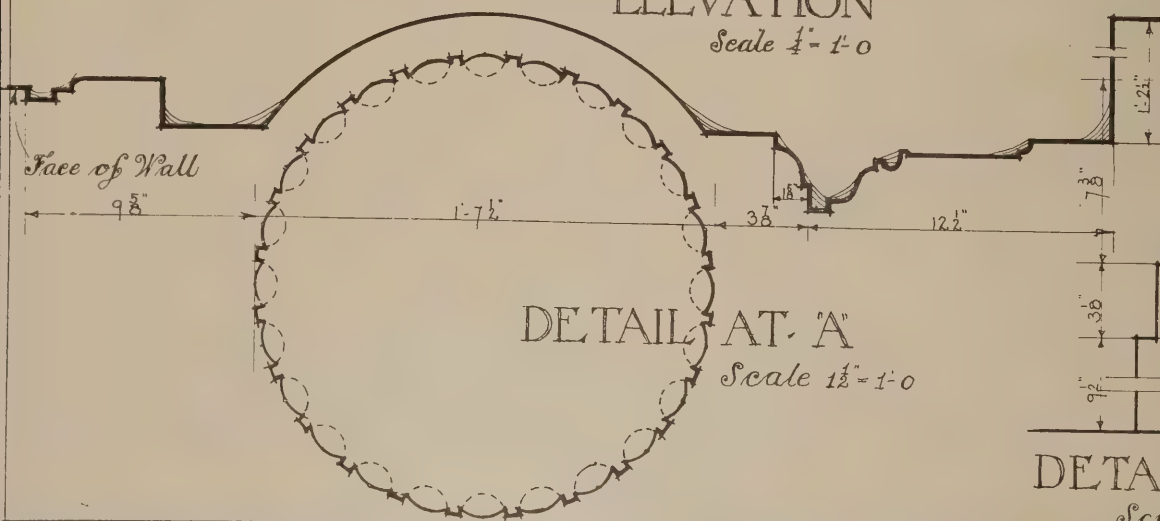
Side Door, Church of St. Chrysogono, Rome



ELEVATION
Scale $\frac{1}{4}$ " = 1'-0"



DETAIL
AT 'B'
Scale $\frac{1}{2}$ " = 1'-0"



DETAIL AT 'A'
Scale $\frac{1}{2}$ " = 1'-0"

DETAIL OF ORDER
Scale $\frac{1}{2}$ " = 1'-0"

Italian
Renaissance
Details

SIDE DOOR
CHVRCH OF ST. CHRYSOGONO, ROME

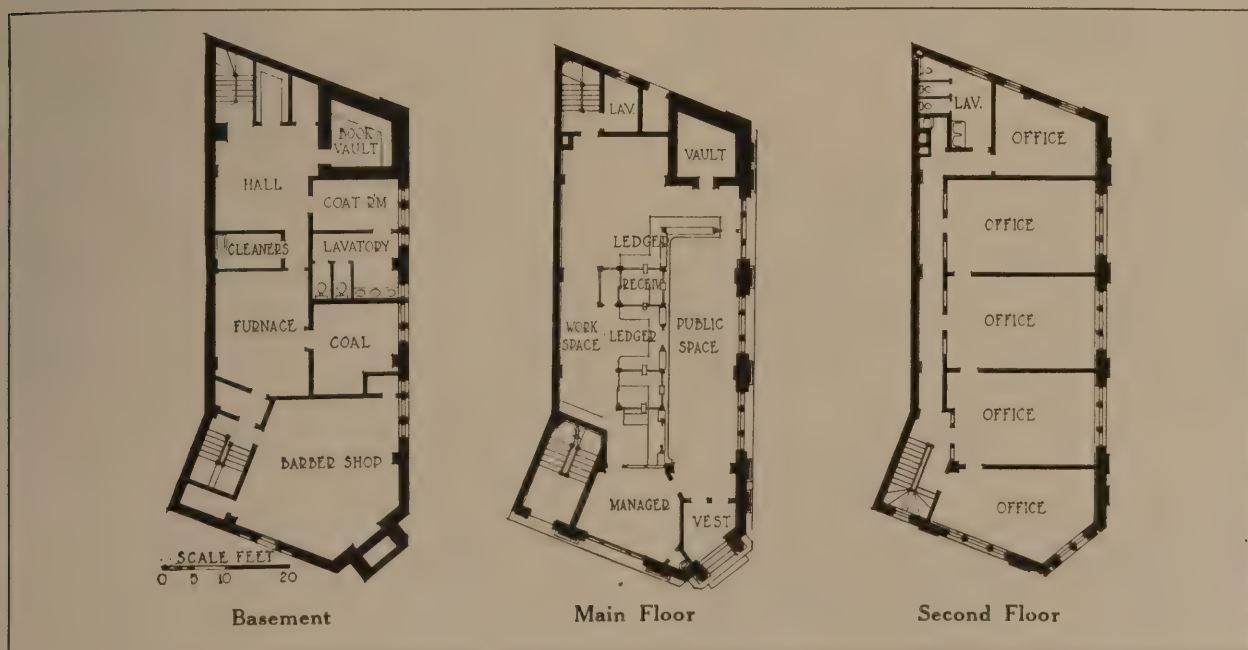
Measured & Drawn
by Isidor Richmond
38th Retch Travel-
ling Scholar



BRANCH OF THE BANK OF MONTREAL, MONTREAL
PHILIP J. TURNER, ARCHITECT

ONE of the branches of the Bank of Montreal occupies an interesting three-story building located at the corner of St. Lawrence and Ontario Streets, Montreal. This building was formerly occupied by the Molson's Bank. As the lot was exceed-

ingly irregular in shape, the problem of erecting a practical and conveniently planned bank on this site involved much care and study. Fortunately, the main facade on Ontario Street could be worked out in a balanced design of three arches, separated and termi-



FORUM SPECIFICATION AND DATA SHEET—80

A Branch of the Bank of Montreal, Montreal; Philip J. Turner, Architect

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Concrete piles and concrete frame and floors;
fireproof construction. Terra cotta partitions.

EXTERIOR MATERIALS:

Indiana limestone and stone base.

ROOF:

Pitch and gravel.

WINDOWS:

Metal frames, and wood sashes top floor.

FLOORS:

Birch hardwood upper floors. Tile floor with
marble base in public space, ground floor.

HEATING:

Steam (low pressure).

PLUMBING:

Enameled iron fixtures.

ELECTRICAL EQUIPMENT:

Lighting.

INTERIOR WALL FINISH:

Plaster.

INTERIOR MILL WORK

Quartered white oak.

DECORATIVE TREATMENT:

Walls tinted. Woodwork wax finish.

APPROXIMATE CUBIC FOOTAGE:

143,206.

COST PER CUBIC FOOT:

37 $\frac{3}{4}$ cents.

DATE OF COMPLETION:

May, 1915.

nated by flat pilasters. As the main wall itself is slightly rusticated, these plain, flat pilasters contrast pleasantly with the sharp joint lines of the walls and give adequate support to the simplified entablature, above which is a low attic crowned by a much heavier entablature with modillion cornice and parapet. The triple windows of this attic are properly placed above the arched openings below, and are sufficiently small in scale to emphasize rather than detract from the importance of the large arched windows, which extend through two stories of the building. The main entrance is placed at the corner, which is cut off to avoid the sharp angle which would have oc-

curred had the Ontario and St. Lawrence Street facades come together at the corner of the building.

In the case of this particular bank it was desirable from a business point of view to locate the entrance at the junction of the two important streets. In order to make the public space as accessible as possible from the entrance, the best lighted portion of the banking floor was devoted to the use of the public. The short facade on St. Lawrence Street is broken by a single arch lighting the manager's office on the main floor and one of the five private offices on the second floor. The various angles made by the irregular-shaped plan are very successfully utilized.



View of Interior



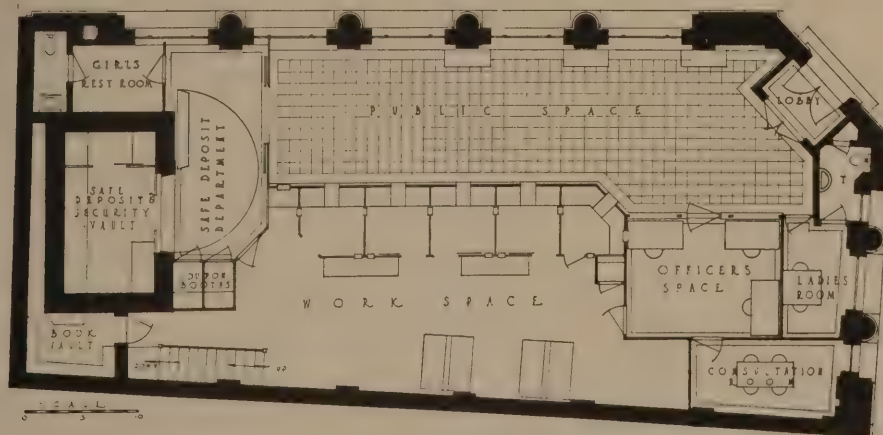
Detail of Entrance



FIRST NATIONAL BANK OF TENAFLY, N. J.
HOLMES & WINSLOW, ARCHITECTS

ANOTHER small bank, very similar in its plan to the branch of the Bank of Montreal, is the First National Bank of Tenaflly, N. J. An almost rectangular corner lot, slightly irregular in shape, was selected for the location of the building. To emphasize the importance of the entrance without breaking either of the street facades, the intersection of the two was cut off, making a small corner facade, in the center of which the entrance door with a square window above, was placed. The

design of the two street facades, executed in cast stone, shows a free use of Italian Renaissance precedent. Engaged columns emphasize and flank the tall window openings on each facade. Decorative wall panels near the top of the walls repeat the elaborate detail of the column capitals, which support a heavy entablature and crowning parapet. As in the branch Bank of Montreal, the public space is here located on the principal street front of the building. Small panes of glass give scale to and pleasantly break up



Main Floor

FORUM SPECIFICATION AND DATA SHEET—81

First National Bank of Tenaflly, N. J.; Holmes & Winslow, Architects

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Semi-fireproof; first floor, concrete slabs and beams; roof, wood beams.

EXTERIOR MATERIALS:

Cast stone on streets; brick on rear.

ROOF:

Tar and gravel.

WINDOWS:

Pivoted steel.

FLOORS:

Terrazzo and linoleum-covered cement.

HEATING:

Vapor.

PLUMBING:

ENAMELED iron fixtures.

ELECTRICAL EQUIPMENT:

Lighting, vault and raid protection.

INTERIOR MILL WORK:

Mahogany, birch and whitewood.

INTERIOR WALL FINISH:

Ornamental plaster, pilasters and cornice.

DECORATIVE TREATMENT:

Plaster, painted.

COUNTER SCREEN:

Marble and wood; wood counters and pedestals.

APPROXIMATE CUBIC FOOTAGE:

92,000.

COST PER CUBIC FOOT:

78 cents.

DATE OF COMPLETION:

March, 1923.

the tall, square topped windows. It is rather a pity that it was not possible to use bronze doors, divided into panels in keeping with the scale of the division of the windows, for the main entrance to the bank. This entrance has an entablature supported on brackets, the entablature carrying a clock flanked by gracefully carved scrolls and ornaments possessing the same refinement of detail shown in the panels located near the top of each pier or wall surface.

Simplicity of treatment and refinement of detail also characterize the design of the banking room it-

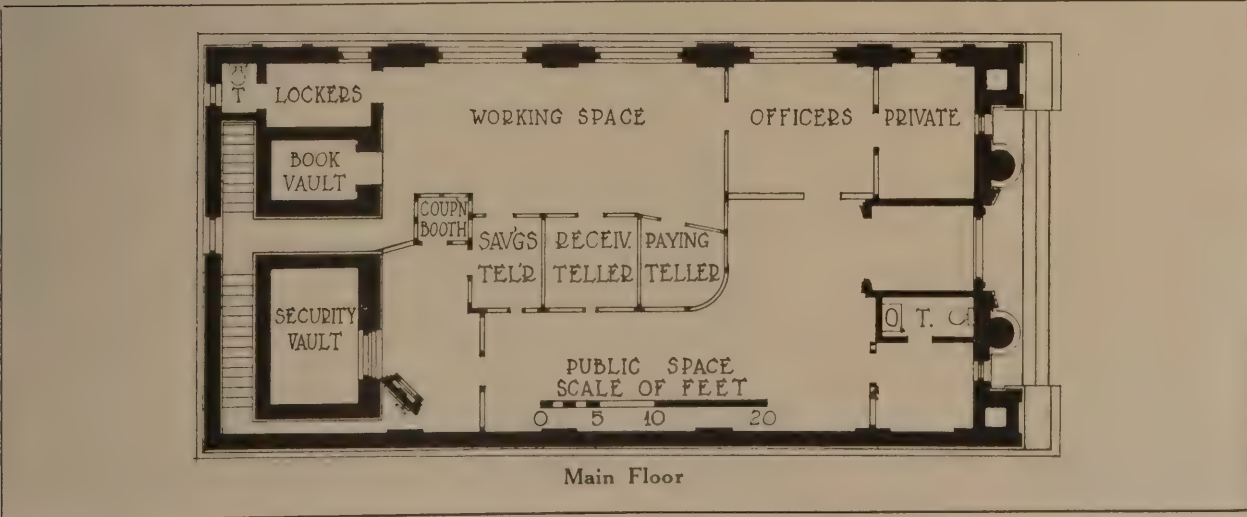
self. The terrazzo floors and painted plaster walls give pleasing contrast to the marble counter rail with its wood and glass screen above. At the center of the rear end of the banking room is located the safe deposit and security vault, on one side of which is a small book vault and on the other a women employees' rest room. A room for women customers with connecting lavatory is located at the left of the main entrance, beyond which is the space for the desks of the officers of the bank, connecting with a small consultation room at the rear, useful for many purposes.



The Public Space



FIRST NATIONAL BANK, ST. JOHNSTVILLE, N. Y.
DENNISON & HIRONS, ARCHITECTS



FORUM SPECIFICATION AND DATA SHEET—82

First National Bank, St. Johnsville, N. Y.; Dennison & Hiron, Architects

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

All bearing walls—concrete in cellar and brick in upper portion. All brick walls furred; combination terra cotta block and concrete long span construction for first floor.

EXTERIOR MATERIALS:

Selected brick trimmed with limestone for two street fronts.

ROOF:

Composition.

WINDOWS:

Steel industrial type for banking room; elsewhere, wood.

FLOORS:

Marble in public space. Cement in cellar, and elsewhere, wood.

HEATING:

Low pressure, one-pipe steam.

PLUMBING AND ELECTRICAL WORK:

First class and of type suitable for this class of building.

INTERIOR WALL FINISH:

Sand-finished plaster.

INTERIOR MILL WORK:

Birch, stained, varnished and rubbed.

DECORATIVE TREATMENT:

Simple, flat tone paint on plaster walls.

COUNTER SCREEN:

Marble base to counter and bronze top screen.

APPROXIMATE CUBIC FOOTAGE:

100,000.

COST PER CUBIC FOOT:

27 $\frac{3}{4}$ cents, exclusive of equipment. 40 cents, including equipment.

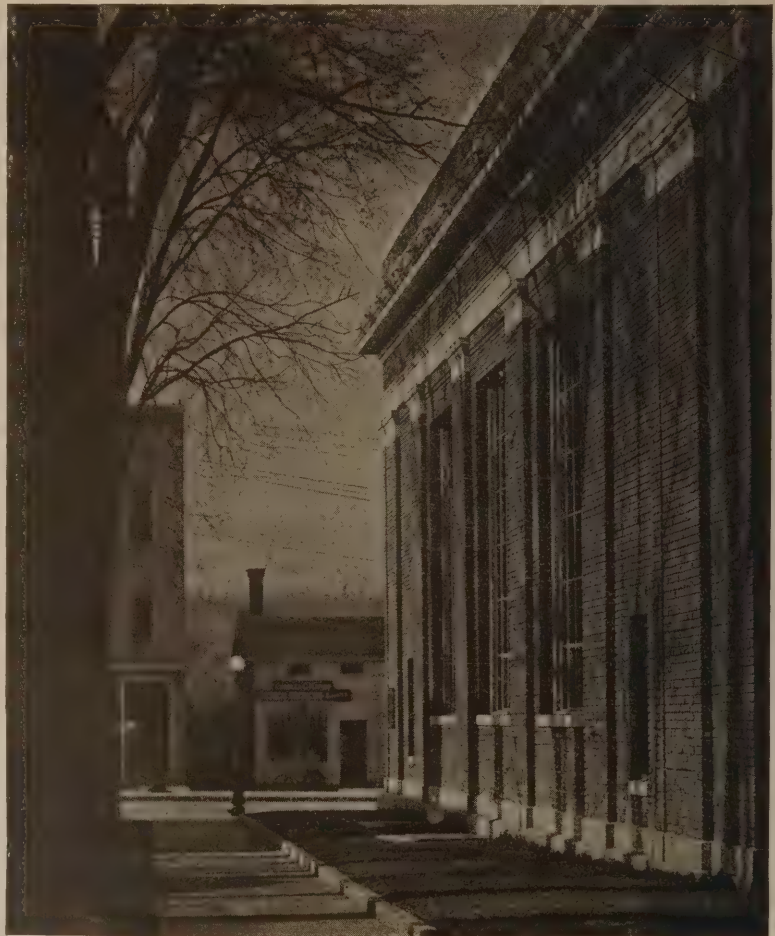
YEAR OF COMPLETION:

1914.

FOR a bank in a country town, the use of brick and limestone with terra cotta trimmings seems wise. In the First National Bank at St. Johnsville, N. Y., these materials have been pleasingly combined in a simple adaptation of Classic architecture, in character rather more Greek than Roman, perhaps. The deeply recessed front makes possible the use of two engaged limestone columns with simplified Corinthian capitals. Two heavy brick piers at the corners are paneled, repeating in character the detail and effect of the wall pilasters on the side street facade. The frieze of the high Classic entablature is filled in with brick except where the name of the bank is inserted in limestone slabs over the entrance door. It is a question whether this entablature would not be more effective had the frieze course been terra cotta like the other members of the entablature. A high brick attic capped with terra cotta crowns the entire building. Small panes of glass add scale and simplicity to the three high window openings on the side street facade and the entrance transom.

The plan of the banking room is well worked out for the convenience of both public and employees. As is the case in most of the banks designed by Dennison & Hiron, the working space is located next to the windows or on the outer side of the banking room, where direct light is obtainable. The public area occupies the inner portion of the banking floor next to the wall. A women's room and lavatory are located at the left of the entrance door, and a private office at the right. Beyond the private office is an open space

for the accommodation of the officers of the bank. The vaults and employees' locker room are located, as usual, at the rear of the banking room floor. In this bank the tellers' cages are conveniently placed between the working space and the area used by the public, while the coupon booth is made part of the enclosure about the securities vault and the cages.



Facade, Side Street



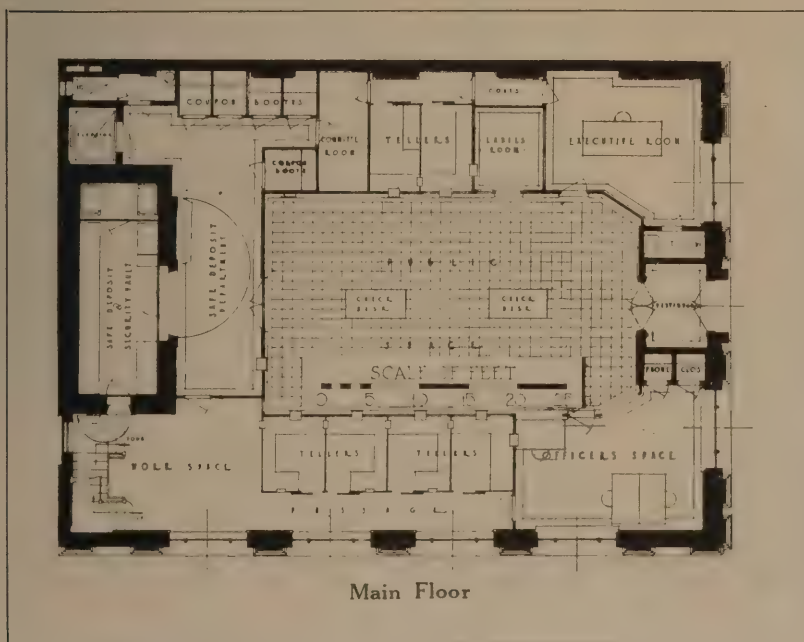
BERKSHIRE LOAN & TRUST COMPANY, PITTSFIELD, MASS.

HOLMES & WINSLOW, ARCHITECTS

A DECIDED variation in the design of small city banks is found in this building of the Berkshire Loan & Trust Company. Built of white marble, the tall fluted Corinthian pilasters successfully tie together the two-story design of the facade in which

tall arched windows indicate the banking room on the main floor, and coupled double-hung windows the offices on the second floor. There is a straightforward simplicity and dignity about the exterior design that is worthy of note as well as emulation.

Except for the simplified Corinthian capitals of the pilasters, the rosettes, modillions and carved members of the entablature, the building is devoid of architectural ornament. In plan the banking room floor is arranged with the public space in the center, as the building is sufficiently wide to permit ample working area on each side of the floor. The entrance door is located in the middle arch of the end or narrow facade of the building. The use of four instead of three or five arches in the side facade seems rather unfortunate, but it was doubtless necessitated by the lack of room for five arches and the advisability of introducing as many arched openings as possible in order to more adequately light the interior. Doubling the pilasters at the corners of the



FORUM SPECIFICATION AND DATA SHEET—83

Berkshire Loan & Trust Company, Pittsfield, Mass.; Holmes & Winslow, Architects

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Fireproof; steel beams and concrete slabs.

EXTERIOR MATERIALS:

Marble on streets; brick on rear.

ROOF:

Tar and gravel.

WINDOWS:

Pivoted steel.

FLOORS:

Marble and cork-covered cement.

HEATING:

Vapor.

PLUMBING:

Enameled iron fixtures.

ELECTRICAL EQUIPMENT:

Lighting.

INTERIOR MILL WORK:

Mahogany and whitewood.

INTERIOR WALL FINISH:

Caen stone finish.

DECORATIVE TREATMENT:

Plaster, painted.

COUNTER SCREEN:

Marble and bronze.

APPROXIMATE CUBIC FOOTAGE:

166,000.

COST PER CUBIC FOOT:

90 cents.

DATE OF COMPLETION:

March, 1923.

building gives added strength and dignity to the design. At the left of the entrance vestibule, space is provided for the desks of the officers of the bank, beyond which are located the tellers' cages with working space, stairways, and vaults at the rear. An elevator is included for use in reaching the second floor, which is also devoted to the business of the bank. At the right of the entrance vestibule is located an executive board room, additional tellers'

cages and coupon booths. The plan of the building, was determined largely by the type of business carried on by the bank. In design and detail this structure has been carefully planned and shows refinement to an unusual degree. The exterior possesses all the architectural grace and distinction usually found in a much larger and more important building, and the interior fulfills the promise made by the exterior. It represents an unusual solution of a problem.



View of Interior



Detail of Entrance

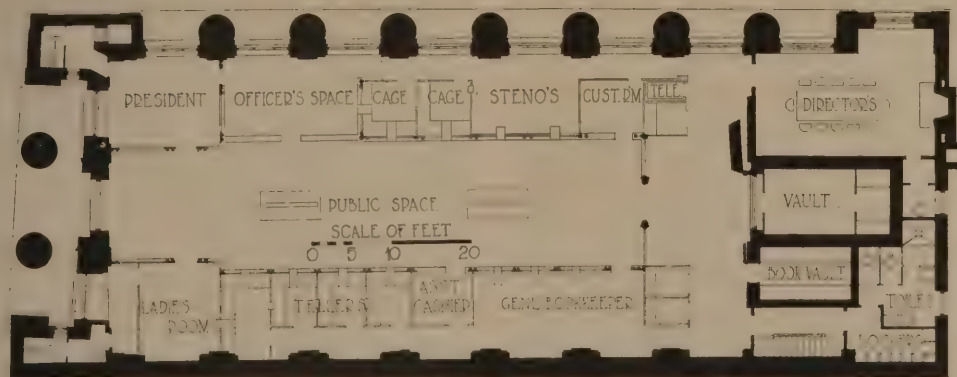


CHARLOTTE NATIONAL BANK, CHARLOTTE, N. C.
ALFRED C. BOSSOM, ARCHITECT

AMONG the many successful and important banks designed by Alfred C. Bossom is this dignified building in the middle South. The design shows a straightforward adaptation of classical Greek architecture, not only in the well proportioned Doric columns but also in the richly decorated entablature with its anthemion encrustation, above which is a high attic with carved swag frieze, forming the crowning feature of the facades. The granite and terra cotta of the exterior are pleasantly relieved by bronze lettering and bronze discs carefully and successfully placed. The corner piers are pleasingly

broken into pilaster strips capped by mouldings of Greek character and refinement. The wide surfaces of the piers at either end of the long facade are also broken by carved swag panels placed near the tops.

The design of the interior of the bank shows more influence of Roman than of Greek architecture. The high coffered ceiling is broken in the center by a large glass dome, which was probably needed in order to supply sufficient daylight. It is possible that the ceiling would have been more pleasing architecturally and more in accord with precedent had it been possible to omit this dome and carry the cof-



Main Floor

FORUM SPECIFICATION AND DATA SHEET 84

Charlotte National Bank, Charlotte, N. C.; Alfred C. Bossom, Architect

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Fireproof.

ROOF:

Tar and felt.

WINDOWS:

Double-hung; wood.

FLOORS:

Steel and concrete; Tennessee marble in public space.

HEATING:

Steam.

PLUMBING:

Wrought iron pipe; vitreous China fixtures.

ELECTRICAL EQUIPMENT:

Lighting.

INTERIOR WALL FINISH:

Plaster.

INTERIOR MILL WORK:

American walnut and birch.

DECORATIVE TREATMENT:

Plaster painted to resemble stone.

COST PER CUBIC FOOT:

\$1.02.

fers, uninterrupted, over the entire length and breadth of the ceiling. The interior of the bank is exceedingly lofty, successfully suggesting the interior of a Roman bath or temple. Corinthian pilasters separate the tall windows on one side and the Classic wall panels on the other. All of the bank screens and the furniture in the public space are of marble. The architectural decorations of the walls as well as the wall surfaces themselves are of plaster painted to resemble stone, the effect of which is satisfying.

The plan of the banking room shows the center given up to the use of the public, with the vaults of the bank and directors' room at the rear of the floor.

Along the outer and inner walls of the room are located the various departments of the bank. At the right of the entrance door is a women's room with a retiring room connecting. Opposite the women's room, on the left of the entrance door, is the president's room with connecting lavatory and coat closet. The use of an uneven number of engaged columns in the long arcade of the principal facade of the bank divides the space into eight large windows. In the case of this arcade the length of it is such that the fact that a column instead of an opening comes at the middle of the facade is not as noticeable or as objectionable as would be the case were it shorter.



The Public Space



Detail, Vault Screen



TRUST COMPANY OF LARCHMONT, LARCHMONT, N. Y.

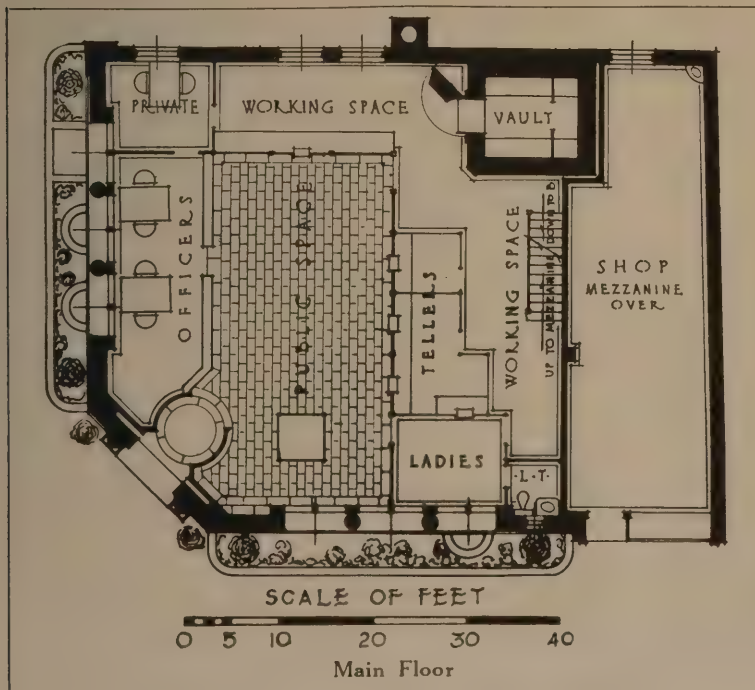
E. D. PARMELEE, ARCHITECT

LOOKING at the illustration of the recently completed building of the Trust Company of Larchmont, one would certainly imagine that the hot sun of southern California or Palm Beach cast the shadows of the Spanish ornamentation against the

warmly toned stucco walls of this adaptation of Spanish architecture. The design of this little building, which shows careful study, is unusually successful in its legitimate use of Spanish detail in the pleasingly proportioned and well balanced facades.

The rich architectural ornament of the doorway, executed in moulded terra cotta, gives proper importance and character to this entrance. Whether the Spanish style of architecture is appropriate for use in a cold northern climate is open to discussion. It at least makes a pleasant change from the type of architecture commonly selected for the many small bank buildings found in all of our northern cities. There is, however, much to be said in favor of this variation in style for use in bank architecture, as may be appreciated from the paragraphs with which the architect kindly supplied the Editor:

"Mr. Alfred Hopkins, writing in THE ARCHITECTURAL FORUM recently, said, 'A new building is the bank's best bid for business.' This is partly because a new building is indicative of stability, and partly because a new building attracts attention. This attention usually fades as fast as the flowers



FORUM SPECIFICATION AND DATA SHEET—85

Trust Company of Larchmont, Larchmont, N. Y.; E. D. Parmelee, Architect

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Semi-fireproof; tile and concrete floors; wood roof on steel girders.

EXTERIOR MATERIALS:

Brick and concrete blocks, stuccoed; terra cotta entrance, coping and panels; cast stone base and columns.

ROOF:

Composition.

WINDOWS:

Wood, with plate glass.

HEATING:

Vapor steam.

PLUMBING:

Porcelain fixtures.

FLOORS:

Travertine for public spaces; elsewhere linoleum.

ELECTRICAL EQUIPMENT:

Burglar alarm; wrought iron lighting fixtures.

INTERIOR WALL FINISH:

Antique plaster.

INTERIOR MILL WORK:

Walnut.

DECORATIVE TREATMENT:

Antique plaster walls; wrought iron screen; velvet curtains.

APPROXIMATE CUBIC FOOTAGE:

75,000.

COST PER CUBIC FOOT:

70 cents, including vault and equipment.

YEAR OF COMPLETION:

1925.

after opening day, and the building is then just another 'bank.' Sustained interest is worth dollars in advertising, and it probably was this thought that led the directors of the Trust Company of Larchmont to depart from traditional 'bank architecture' and adopt a style more interesting, though not less dignified. In doing so they followed the trend of the times. Even the largest and most conservative banks are forsaking the Classical and seeking variety in other styles of architecture. The building is Spanish Renaissance, a style of growing popularity in this country because of its ready adaptability to our requirements. Here broad, plain wall surfaces make for dignity and provide a fitting back-

ground for the ornate terra cotta entrance of true Spanish type. The street facades are severe in their simplicity,—too severe, were it not that the corner entrance enlivens the composition and provides a focal point of interest, taking advantage of contrast.

"The interior is no less interesting than the exterior. Here the public space is floored with travertine and enclosed by an exquisitely wrought iron screen silhouetted against plain, rough textured plaster walls. The screen rests on a travertine base. Behind and below the counter, forming a background for the grille, hangs a blue velvet curtain, back of which is steel. The benches and chairs were brought from Spain and are antiques, already generations old."



View of Interior



Detail of Entrance

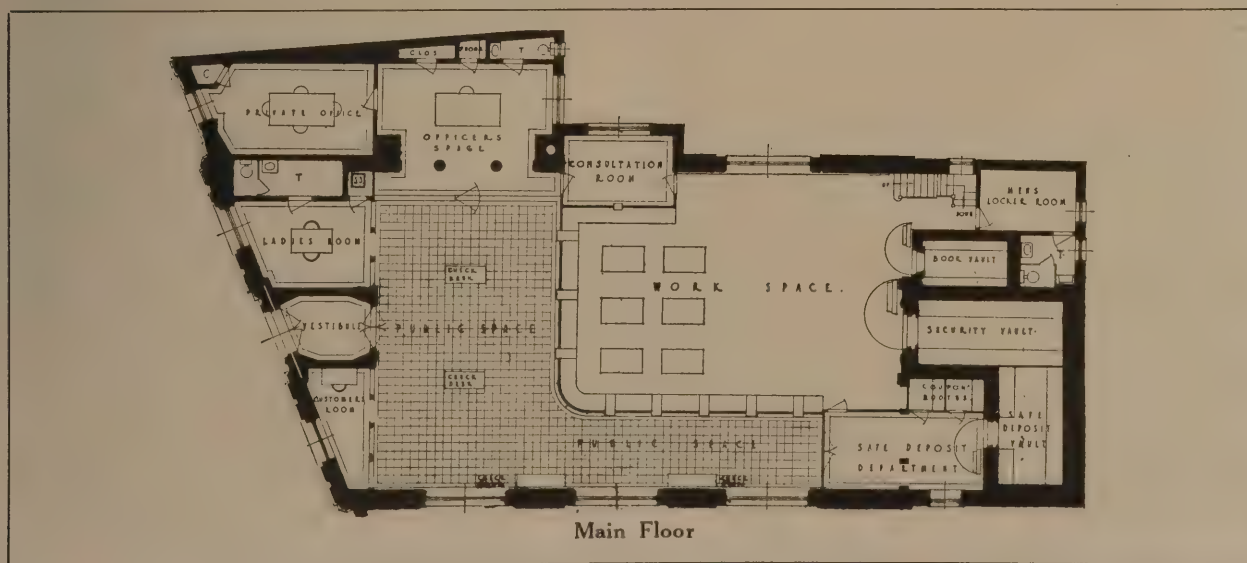


MIDDLETOWN SAVINGS BANK, MIDDLETOWN, N. Y.
HOLMES & WINSLOW, ARCHITECTS

THE design of this dignified bank building shows an excellent monumental arrangement of a well proportioned main building with a low projecting wing on one side and a balancing gateway on the other. Although the character of the Renaissance details used for the expression and decoration of this facade is more English than French, the effect of the completed whole has quite a French feeling about it, suggesting the ultra-refined period of Louis XVI.

The carved panels above each of the side windows, the carved pediment over the entrance door, and the small carved panels in the parapet above the cornice suggest the exquisite detail found in the work of the metal craftsmen of the best period of the French Renaissance. The building is symmetrical and balanced.

The old fashioned idea of a banking house is excellently suggested in the main facade of the Middle-town Savings Bank. The windows are large, well



FORUM SPECIFICATION AND DATA SHEET—86

Middletown Savings Bank, Middletown, N. Y.; Holmes & Winslow, Architects

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Fireproof; metal tile and reinforced concrete; steel beams.

EXTERIOR MATERIALS:

Stone front; brick sides and rear.

ROOF:

Tar and gravel.

WINDOWS:

Steel casements.

FLOORS:

Marble and linoleum-covered cement.

HEATING:

Vapor.

PLUMBING:

Enameled iron fixtures.

ELECTRICAL EQUIPMENT:

Lighting and vault and raid protection.

INTERIOR MILL WORK:

Mahogany and white wood.

INTERIOR WALL FINISH:

Caen stone finish.

DECORATIVE TREATMENT:

Plain plaster, painted.

COUNTER SCREEN:

Marble and bronze; metal counters and pedestals.

APPROXIMATE CUBIC FOOTAGE:

222,000.

COST PER CUBIC FOOT:

79 cents.

DATE OF COMPLETION:

October, 1924.

proportioned and well placed. The absence of iron grilles and bars gives an appearance of homelike hospitality rather than of the austere repulsion found in the usual bank having heavily barred doors and windows. This banking house looks inviting and attractive and tempts one to pass within its portals.

The entrance door, which has been set into the lower part of the center arched opening, is simple in design but of excellent proportions. Coupled Corinthian pilasters break the building's facade up into three parts which suggest the arrangement of the women's and general customers' rooms within. Not only because the bank design is exceptionally well proportioned but also because it has unusual architectural dignity and character, the institution is mak-

ing strides in the ever-increasing number of its depositors. The design of the main building itself is sufficiently balanced and well composed to require no projecting wings or bays, but the introduction of these unusual features adds to rather than detracts from the solidity and importance of the structure.

The spacious banking room within reflects the same careful study and painstaking effort to create an interior both practical and monumental. As is possible in savings banks, the amount of working space is but little larger than the public area, which occupies the best part of the building. A security and book vault occupies the center rear of the building, balanced by the men's locker room on one side and the safe deposit department on the other side.



Interior, Showing Arrangement of Banking Screen



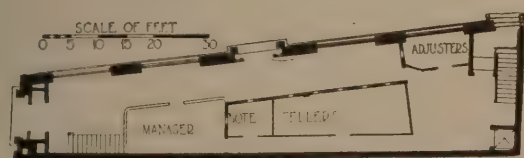
SHERIDAN SQUARE BRANCH, CORN EXCHANGE BANK, NEW YORK
S. EDSON GAGE, ARCHITECT

AN excellent example of a practical, inexpensive, small city bank is this branch of the Corn Exchange Bank in New York. Located on an irregular-shaped corner lot, only 15 feet wide at its nar-

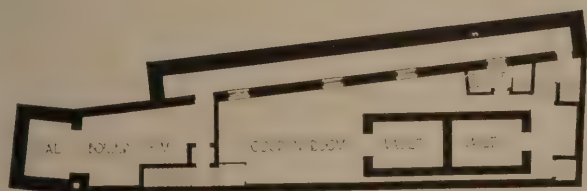
rowest end, this long and narrow building is simply and directly planned. There are two entrance doors, one at the narrow end of the building on Grove Street, and the other in the center of the facade on Sheridan Square. The facade has five high arched openings, broken by a wide string course at the level of the second floor. These large windows adequately light the interior of both the first and second floors of the bank and give a pleasing architectural effect to the exterior. These arches, which form the principal part of the exterior design, rest on a high base course which brings the sills of the windows about 5 feet above the sidewalk level. The marble of this base course is repeated in the string courses, the neckings of the piers between the windows, the ornamental key blocks in the arches, the simple Greek entablature which crowns the arched motif of the facade, and in the lintels of the third story windows. The slightly projecting cornice which supports the overhang of the slate roof above is made of wood and painted white. The Colonial character of the building is still further marked by the use of red brick, laid in a combination of Flemish and English bonds with white mortar joints, producing an interesting design. The brickwork of the arches themselves is also unusual in character and worthy of note. Here the bricks, instead of being set on lines radiat-



Second Floor



Main Floor



Basement

FORUM SPECIFICATION AND DATA SHEET—87

Sheridan Square Branch, Corn Exchange Bank, New York; S. Edson Gage, Architect

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Fireproof.

EXTERIOR MATERIALS:

Brick and marble.

ROOF:

Slate.

WINDOWS:

Steel.

FLOORS:

Terrazzo.

HEATING:

Steam.

ELECTRICAL EQUIPMENT:

Lighting.

INTERIOR WALL FINISH:

Paint.

INTERIOR MILL WORK:

None.

TIME OF COMPLETION:

1919-1920.

ing from the center of the arch, follow round the arch in three rows, thus emphasizing the curve of the opening. The third story of the building appears as an attic above the main entablature. The well proportioned, rectangular windows break the walls of this attic above each of the main arches. The marble lintels of these windows show the influence in their design of the late Colonial detail found in many of the old houses in Charlton Street and Sheridan Square in Greenwich Village, where the bank stands.

The interior of the bank is as simple and direct in its architectural design as is the exterior. The building is so narrow that the large front windows light the working space quite as successfully as they do the public space which extends along the outer

side of the room. Terrazzo is used for the floor of the public area. Above a marble base, simply paneled railings of wood and a screen of glass and wood shut off the working area from the public space in the banking room. The walls are simply painted in imitation of Caen stone, with the line of each ceiling beam carried down on the wall, dividing the imitation stonework into vertical panels. Stairs from the main floor lead to the safe deposit vaults in the basement and up to the second floor, which is used for the bookkeeping department of the bank. On the third floor are located rest rooms and a dining room for the use of the officers and employes of the bank. The special type of steel window frames used permits the opening of individual panes of glass.



Detail of Entrance



View of Interior

INTERIOR ARCHITECTURE

Salon in the Apartments of Madame Du Barry, Versailles

By C. HAMILTON PRESTON

TUCKED away under the mansard roof in the wing on the right as one approaches the Palace of Versailles from the town side, is a series of smaller and more intimate rooms known as the Du Barry Apartments, which were created by Louis XV for the royal favorite, Du Barry. They include some of the most charming rooms in the Palace from the point of view of both design and detail. They are excellent examples of their type.

The problem for the architect was to get sufficient height in the rooms, as the dormer windows opening on the court were low. However, the ceilings were raised to the required height and, though the windows are considerably lower, the lighting is fairly adequate. Although this gives a very unusual appearance to the rooms, it has been ingeniously handled. This location of dormers occurs only in certain of the rooms and not in that which is the subject of these measured drawings. The decorations of the suite, which is very complete, consisting of several salons, library, boudoirs, etc., are most sumptuous. In general the paneling follows the restrained classical style of Louis XIV and the Regence, though much of the ornament is of the more elaborate Louis XV type. Several of the rooms were

done in cream and white and several in colors, deep blue prevailing; but these latter, under the Second Empire, were all changed to the shade of gray popular at that time, as were many other interiors.

The subject of these drawings, which served as a Salon, is among the most interesting of the rooms. It is distinctly Regence in feeling and restrained in treatment, although rich in beautiful and well placed ornament. Notable are the windows with curved jambs and soffits, most difficult to execute, and yet in perfect condition to this day. The ornaments over the center of the arch and the rosettes in the soffit are exquisitely carved. The two elliptical doorways have the same type of ornament. All the panels have the easement at the corners with charming carved leaf motifs, while the narrow horizontal panels above the dado all have exquisite rosettes and tiny leaf ornaments at the corners of the raised part of the splay. The mantel, of rose and gray marble, is restrained in design and admirably suited to the room. One feels here the light and gaysome quality of the Louis XV manner sobered and subdued by the more severe and restrained Regence period which preceded it. Though little known, this room is one of the most perfect examples of the work of its period.

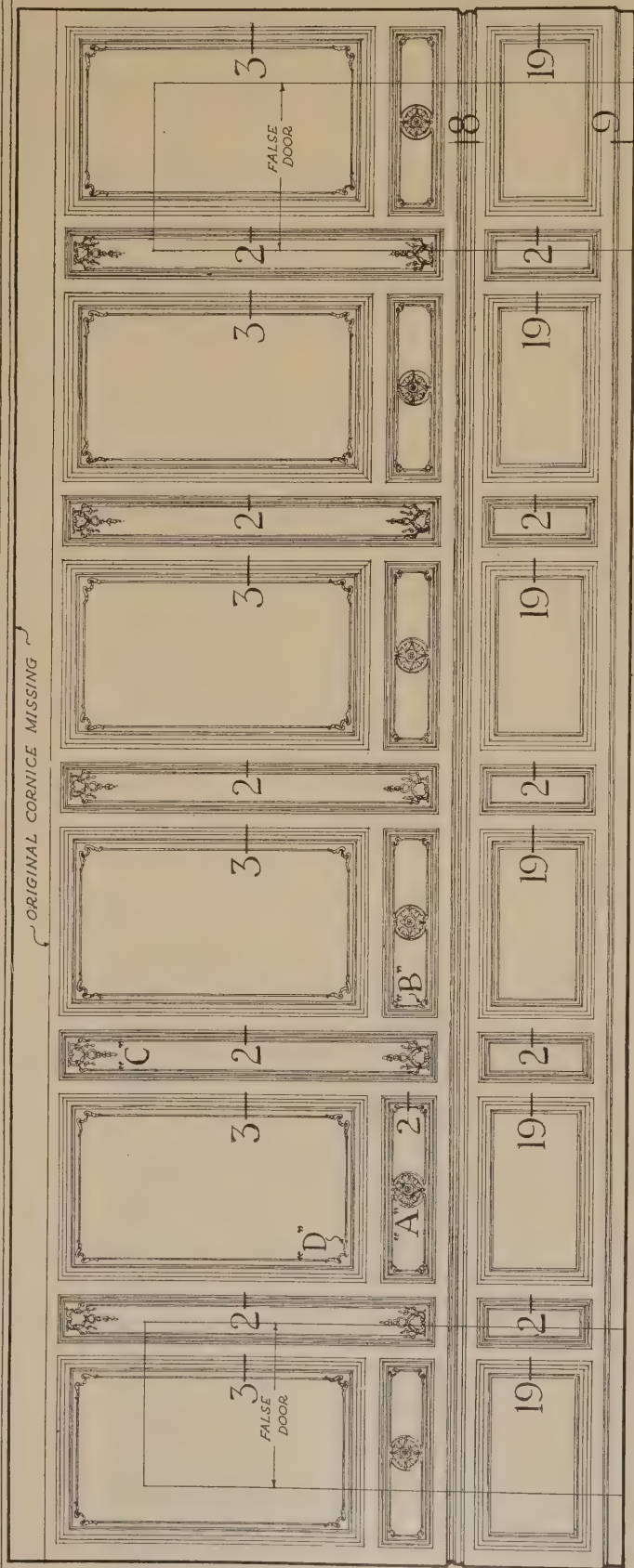


Doorway, Salon, Du Barry Apartments, Versailles

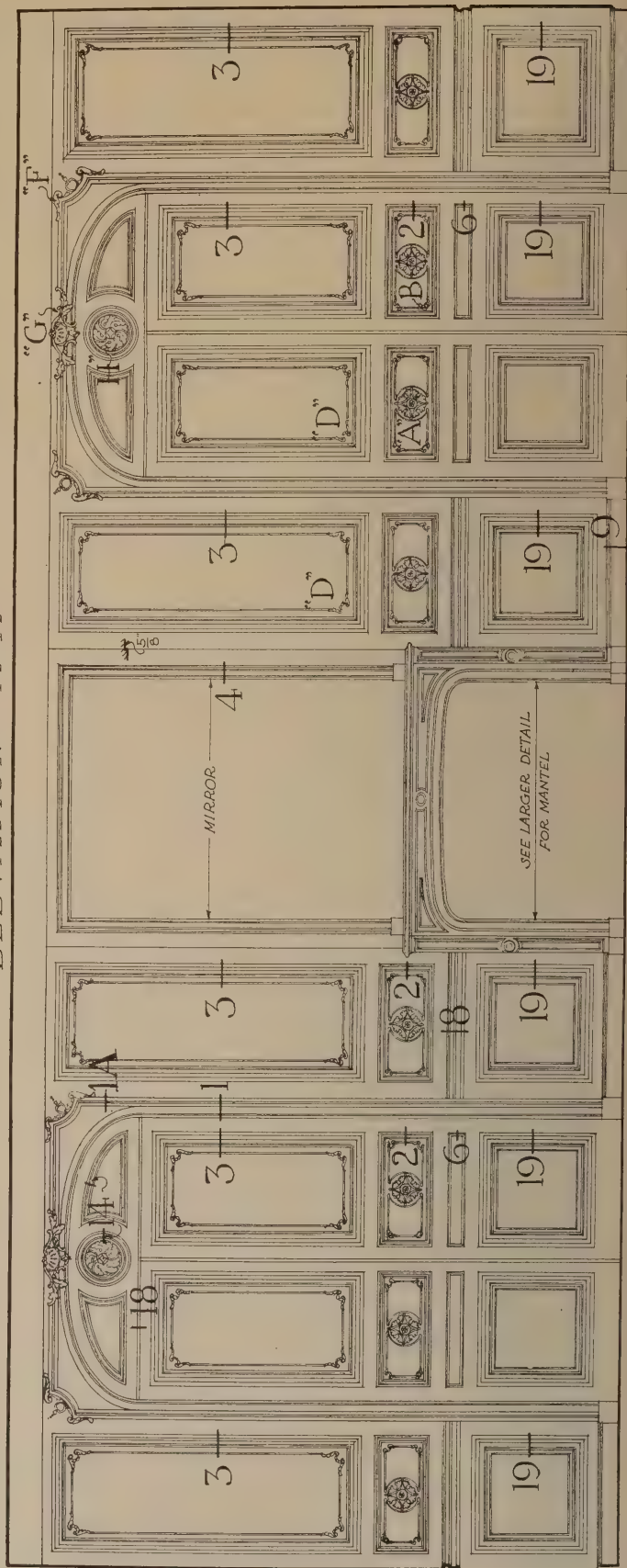


Mantel, Salon, Du Barry Apartments, Versailles

ORIGINAL CORNICE MISSING

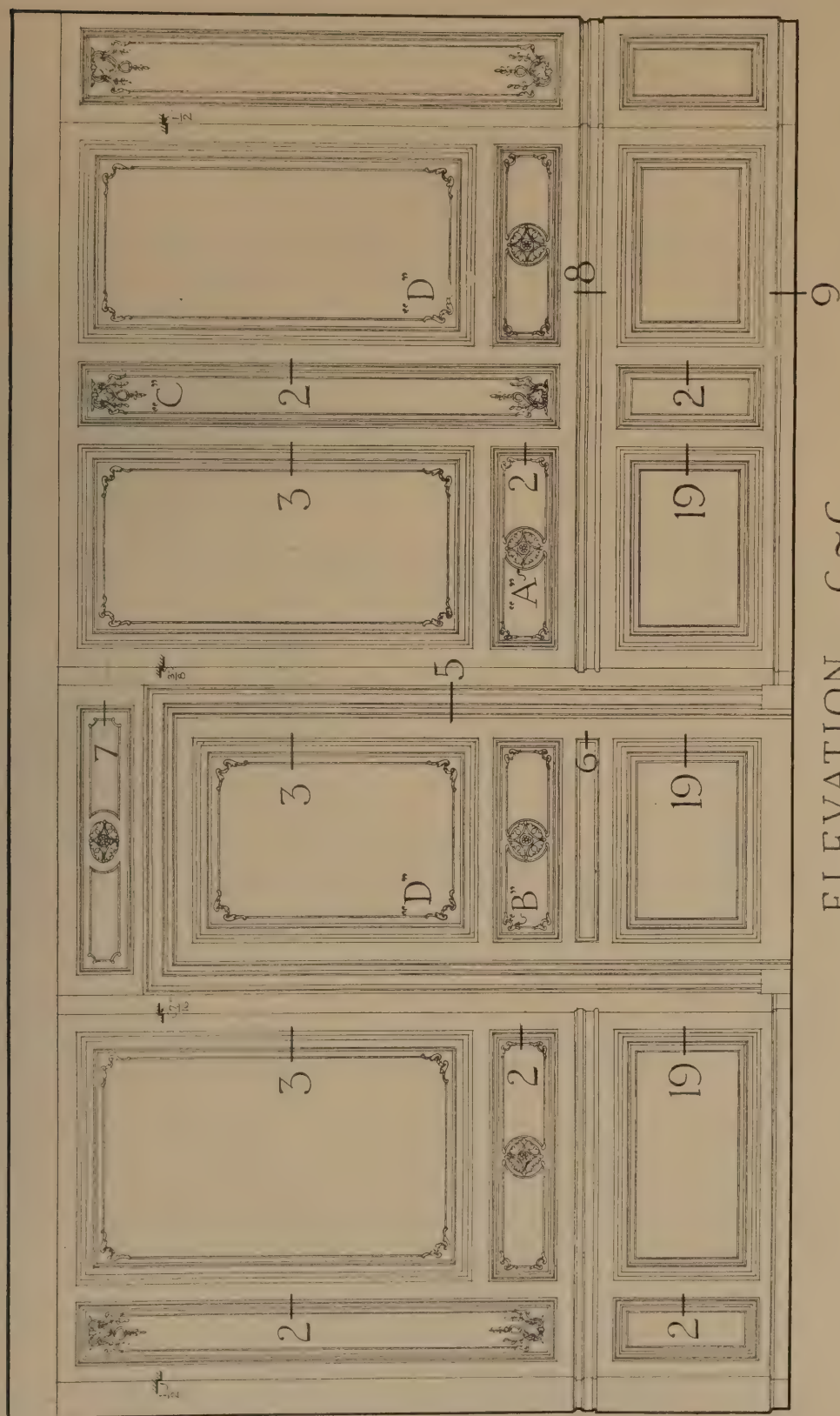


ELEVATION A~A



ELEVATION B~B
DU BARRY APARTMENTS, VERSAILLES

Scale $\frac{3}{8}$ = 1 Foot



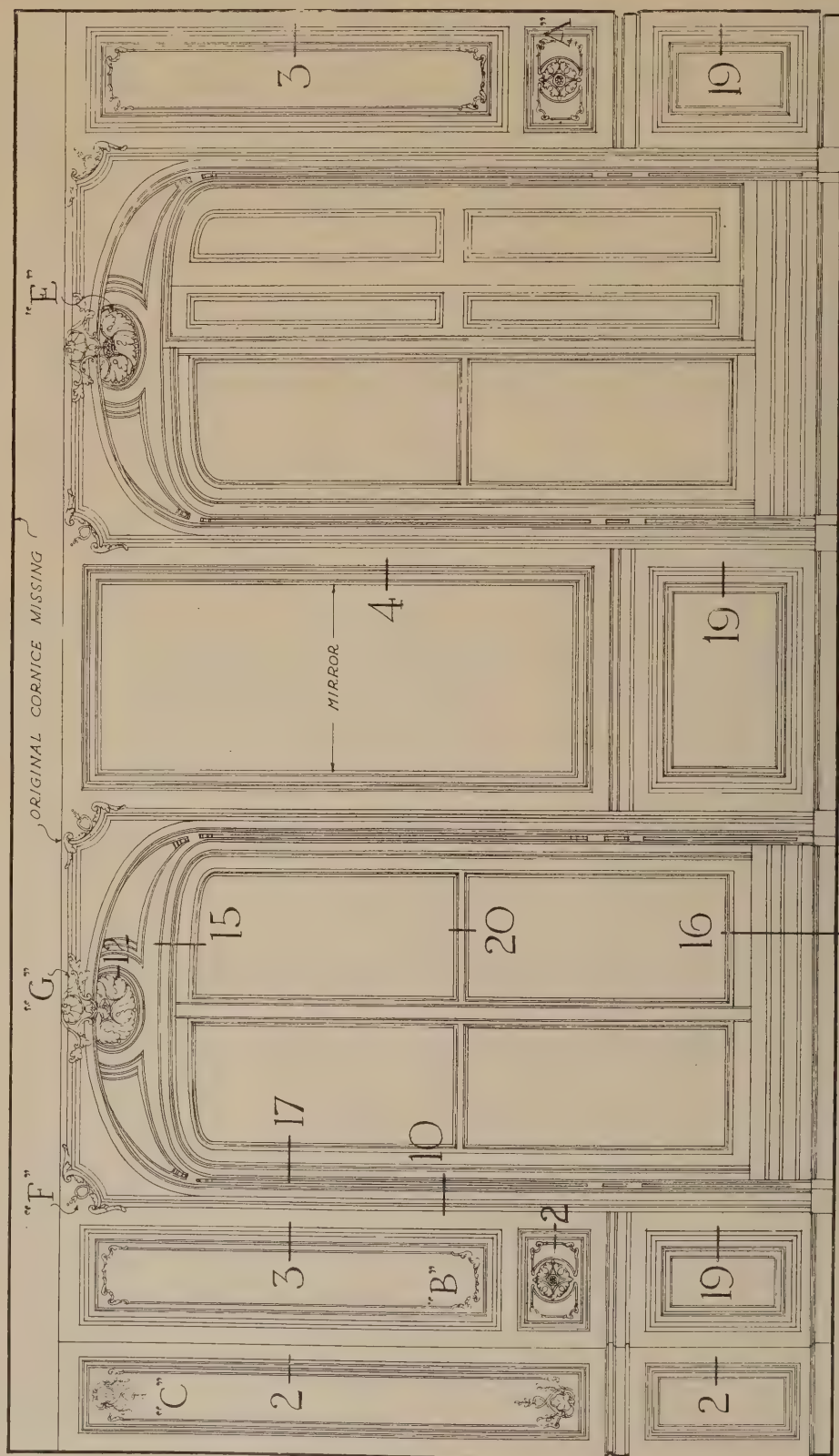
ELEVATION C~C

Scale $\frac{1}{2}$ " = 1 Foot

SALON

DU BARRY APARTMENTS

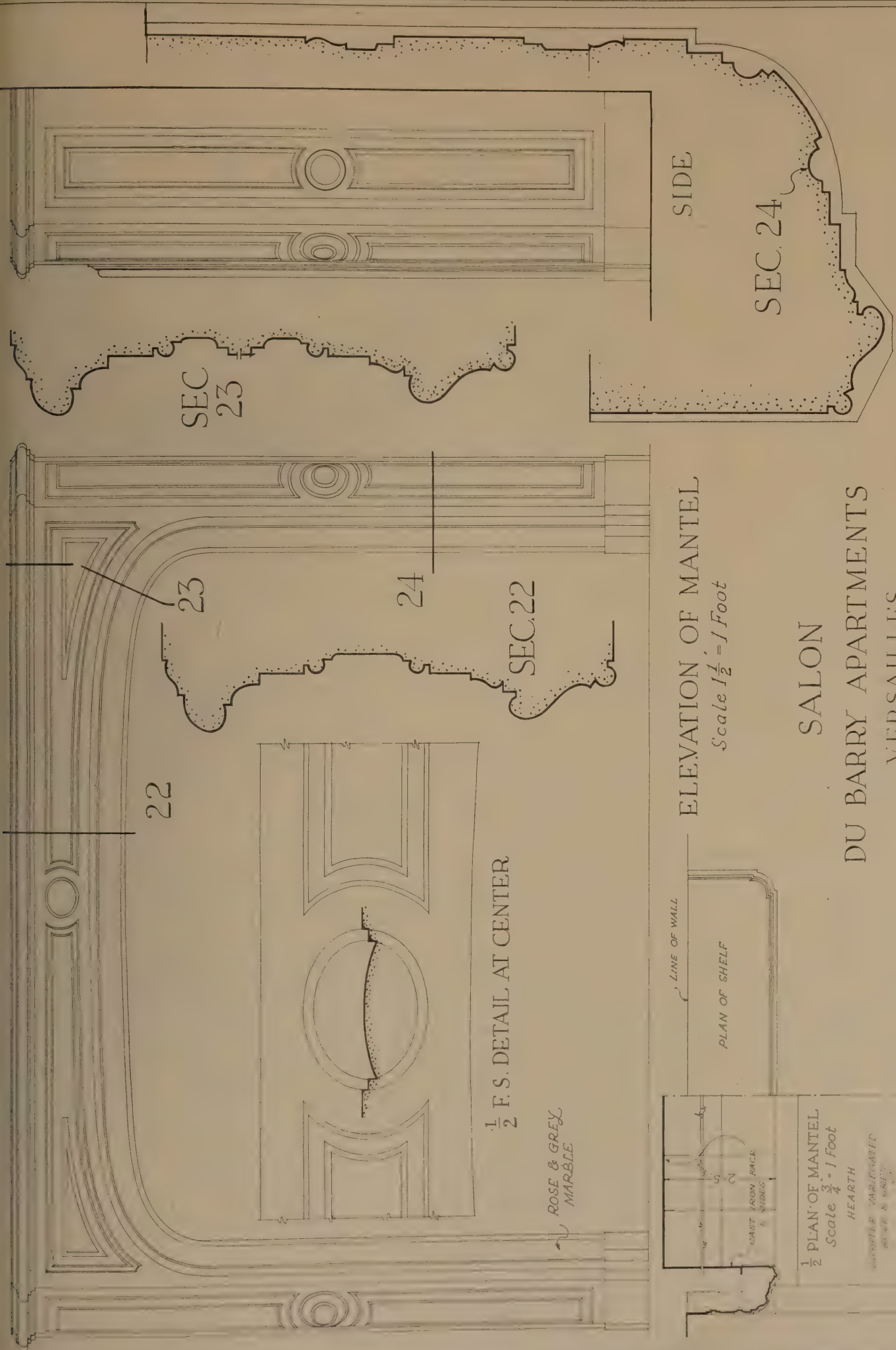
VERSAILLES



ELEVATION D~D

Scale $\frac{1}{2}$ " = 1 Foot

SALON
DU BARRY APARTMENTS
VERSAILLES



ELEVATION OF MANTEL
Scale $1\frac{1}{2} = 1$ Foot

SALON
DU BARRY APARTMENTS
VERSAILLES

$\frac{1}{2}$ F.S. DETAIL AT CENTER

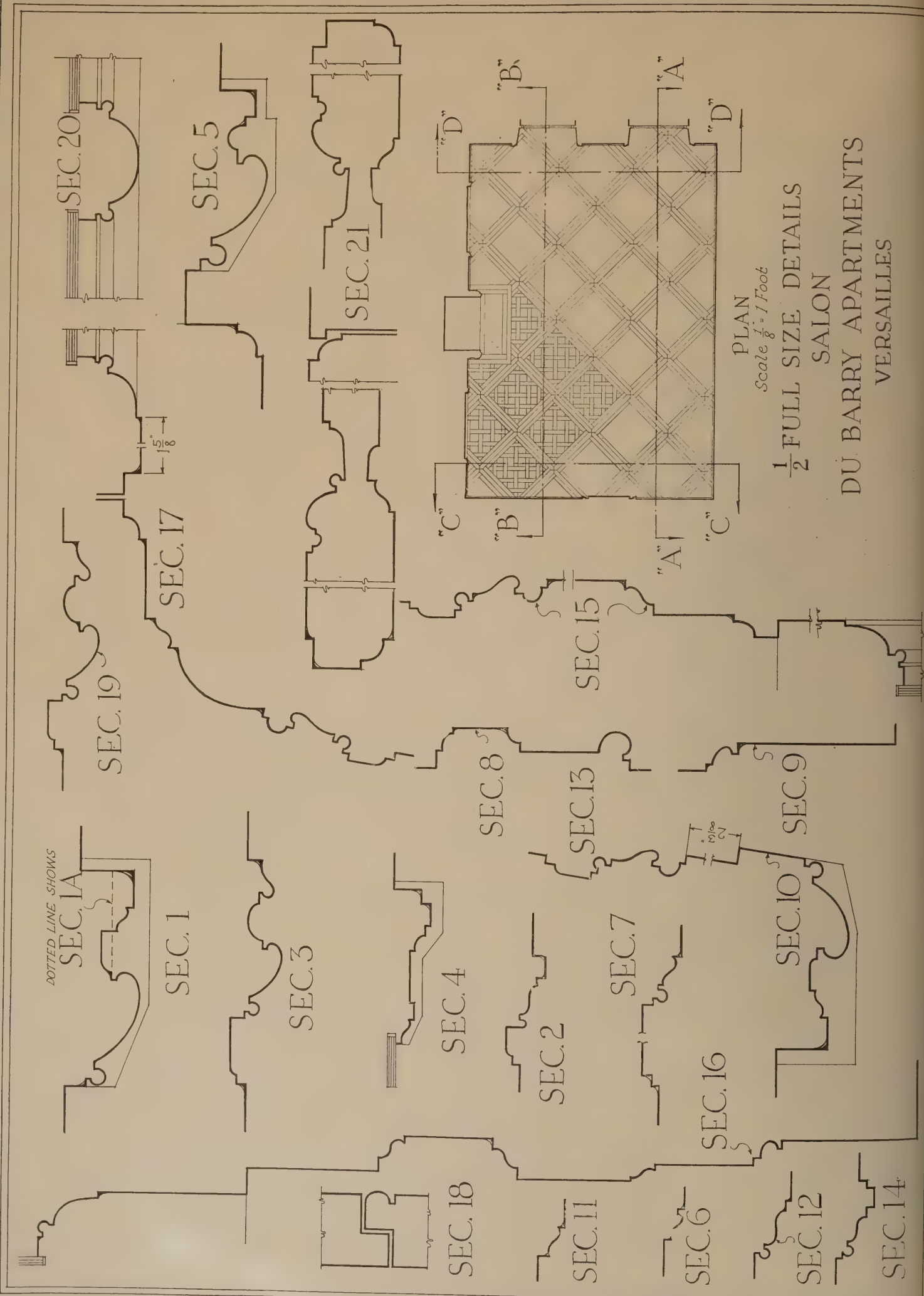
ROSE & GREY
MARBLE

$\frac{1}{2}$ PLAN OF MANTEL
Scale $\frac{3}{4} = 1$ Foot

HEARTH

CAST IRON BACK
SIDES

CAST IRON BACK
SIDES



PLAN
Scale $\frac{1}{8}$ " = 1 Foot

$\frac{1}{2}$ FULL SIZE DETAILS
 SALON
 DU BARRY APARTMENTS
 VERSAILLES

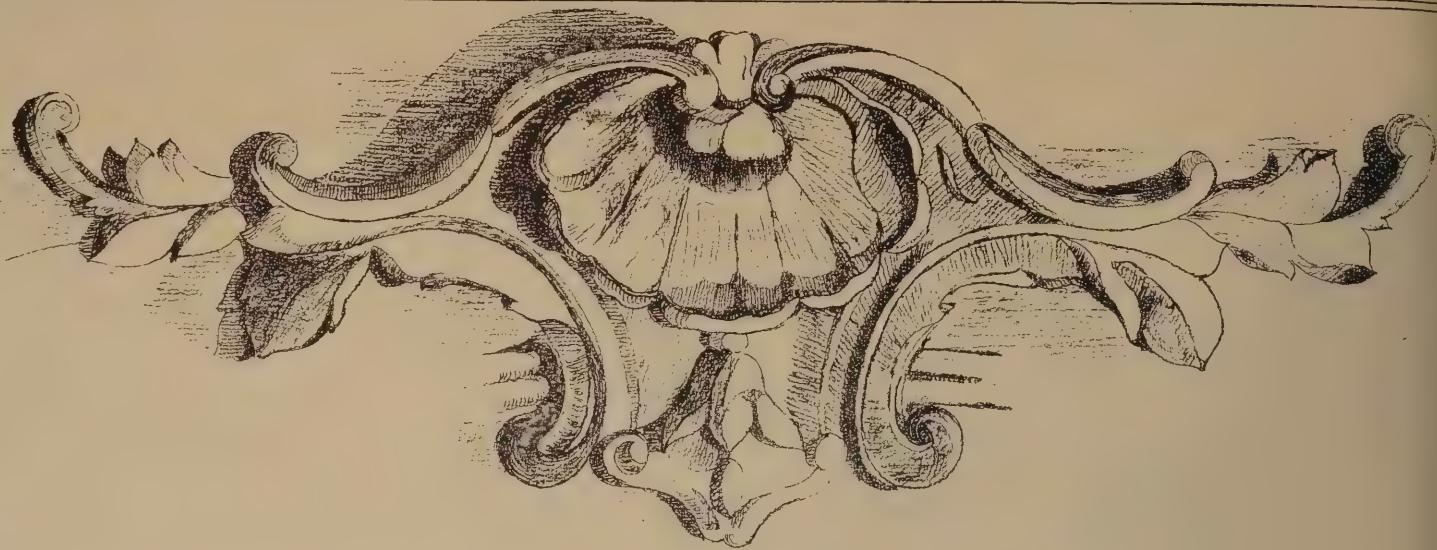
DOTTED LINE SHOWS
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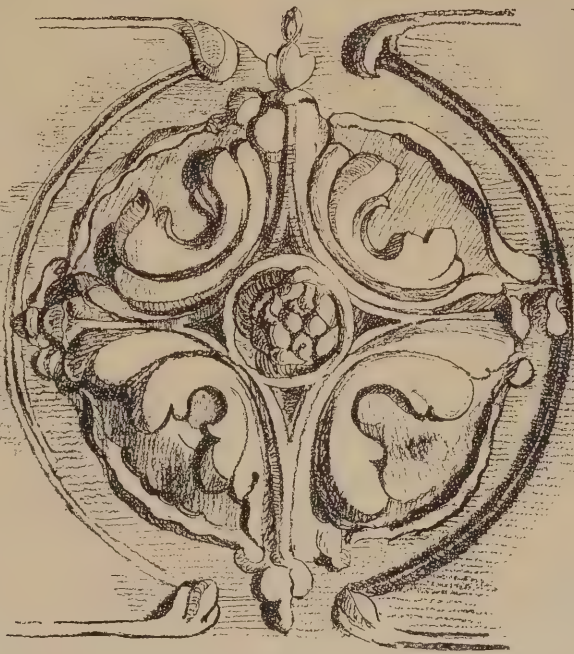
DETAIL "H"
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VERSAILLES



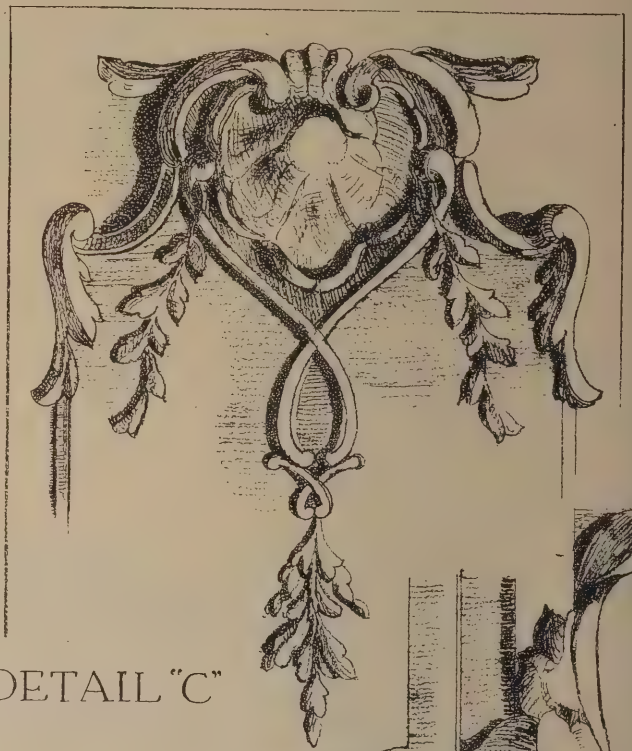
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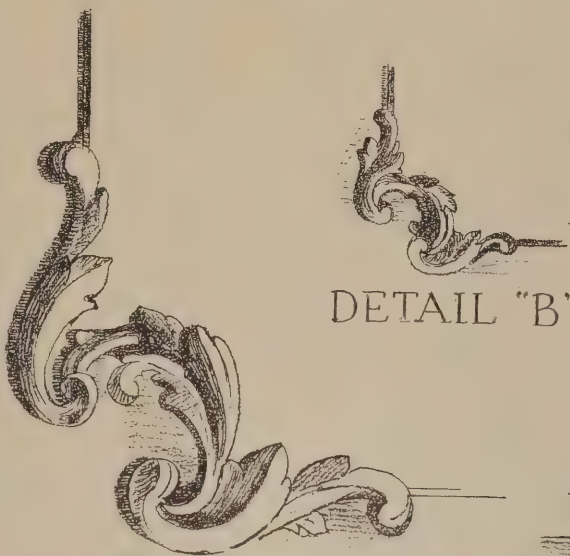
DETAIL "G"



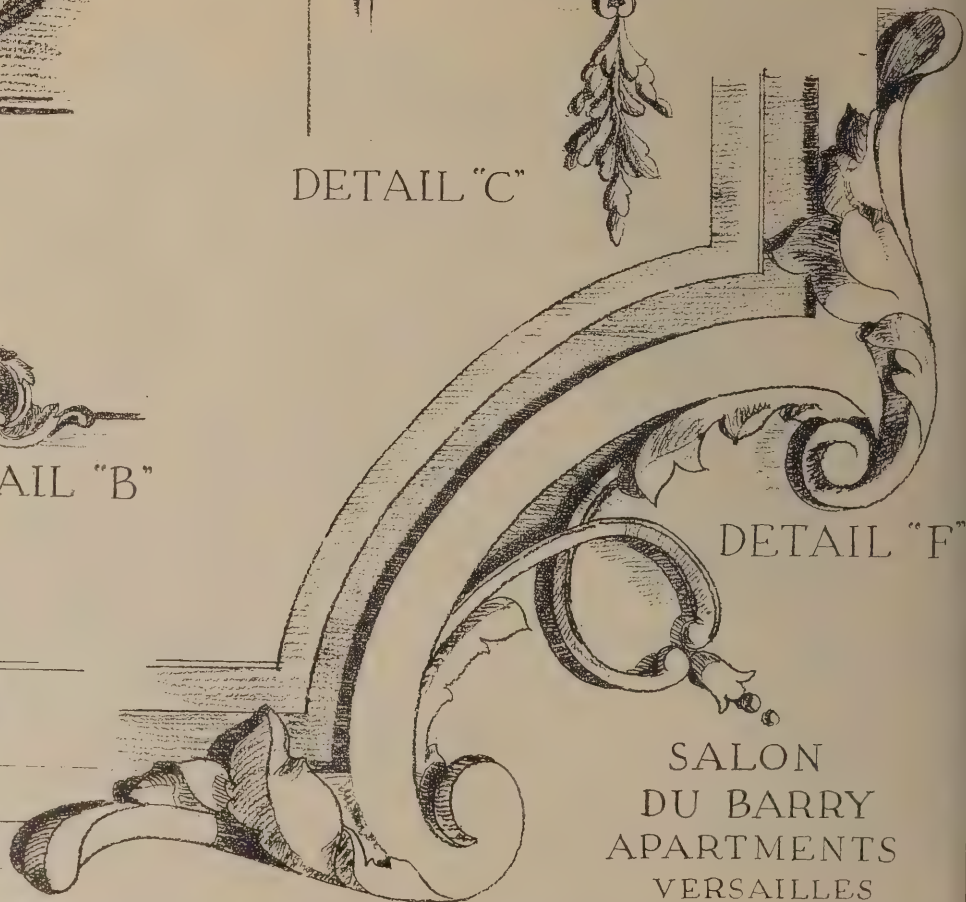
DETAIL "A"



DETAIL "C"



DETAIL "B"



DETAIL "F"

DETAIL "D"

SALON
DU BARRY
APARTMENTS
VERSAILLES

KENSINGTON FURNITURE

AWARDED GOLD MEDAL OF HONOR IN NATIVE INDUSTRIAL ART
39TH ANNUAL EXHIBITION ARCHITECTURAL LEAGUE OF NEW YORK



A Group in the Showrooms—EARLY SPANISH WALNUT FURNITURE, by Kensington

THE growing interest in the furniture and decorative art of Old Spain is a natural result of the trend in America toward simplicity and freedom in home surroundings. We are coming to share the Spaniard's appreciation of the restfulness of plain wall surfaces and their value as background for fabrics and furniture.

Early Spanish furniture (Mudejar), the work of Moorish craftsmen, is a fascinating blending of the richness of Renaissance Italy with the simplicity of the Arab. The frank

directness of its construction and ornament gives it an extraordinary vitality and a decorative quality that is brilliant yet essentially simple in character.

Fidelity in design and the old-time hand processes of the Kensington craftsmen retain in Kensington reproduction the character and the decorative quality that are the charm of the antique.

Kensington Furniture is made in all the decorative styles appropriate for American homes.

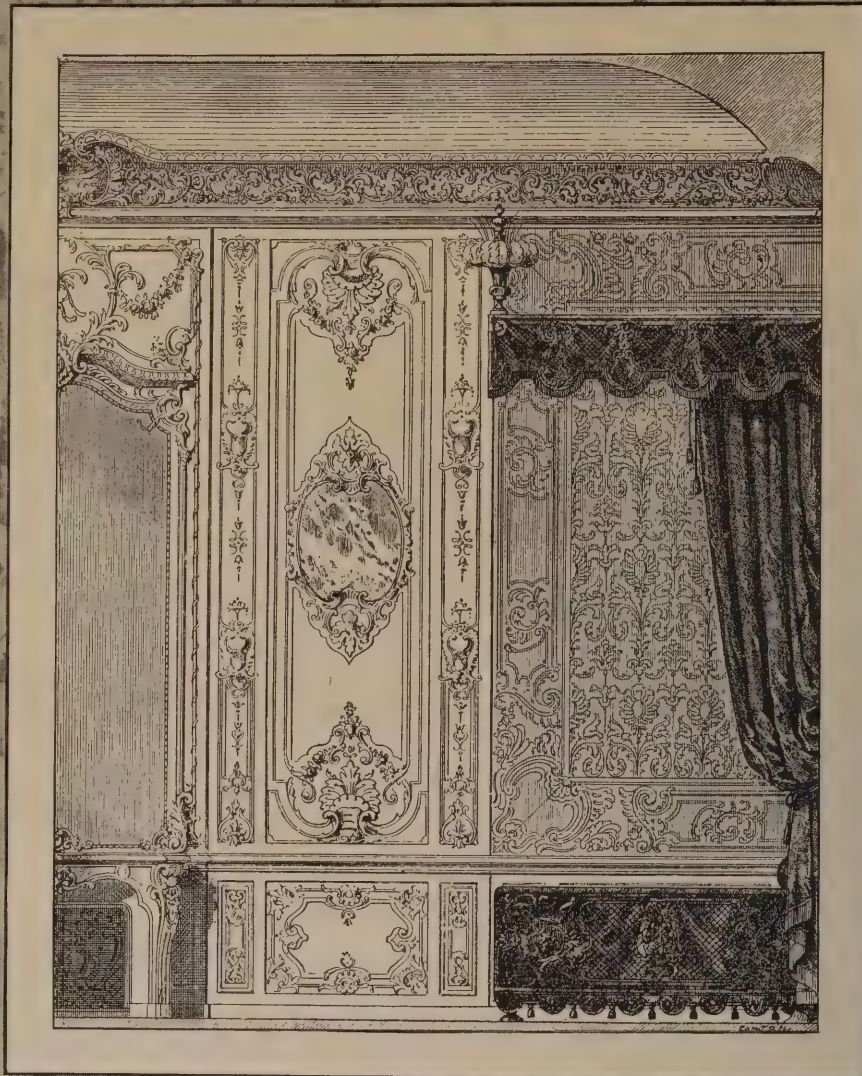
Architects interested in completing the interiors they design with furnishings harmonious in both character and quality are cordially invited to avail themselves of the service of the Kensington Showrooms and staff.

Illustrated Booklet F sent on request

WORK SHOPS
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KENSINGTON MFG. COMPANY
MANUFACTURERS AND IMPORTERS
DECORATIVE FURNITURE ~ ART OBJECTS
NEW YORK

SHOWROOMS
41 WEST 45TH STREET
6TH FLOOR



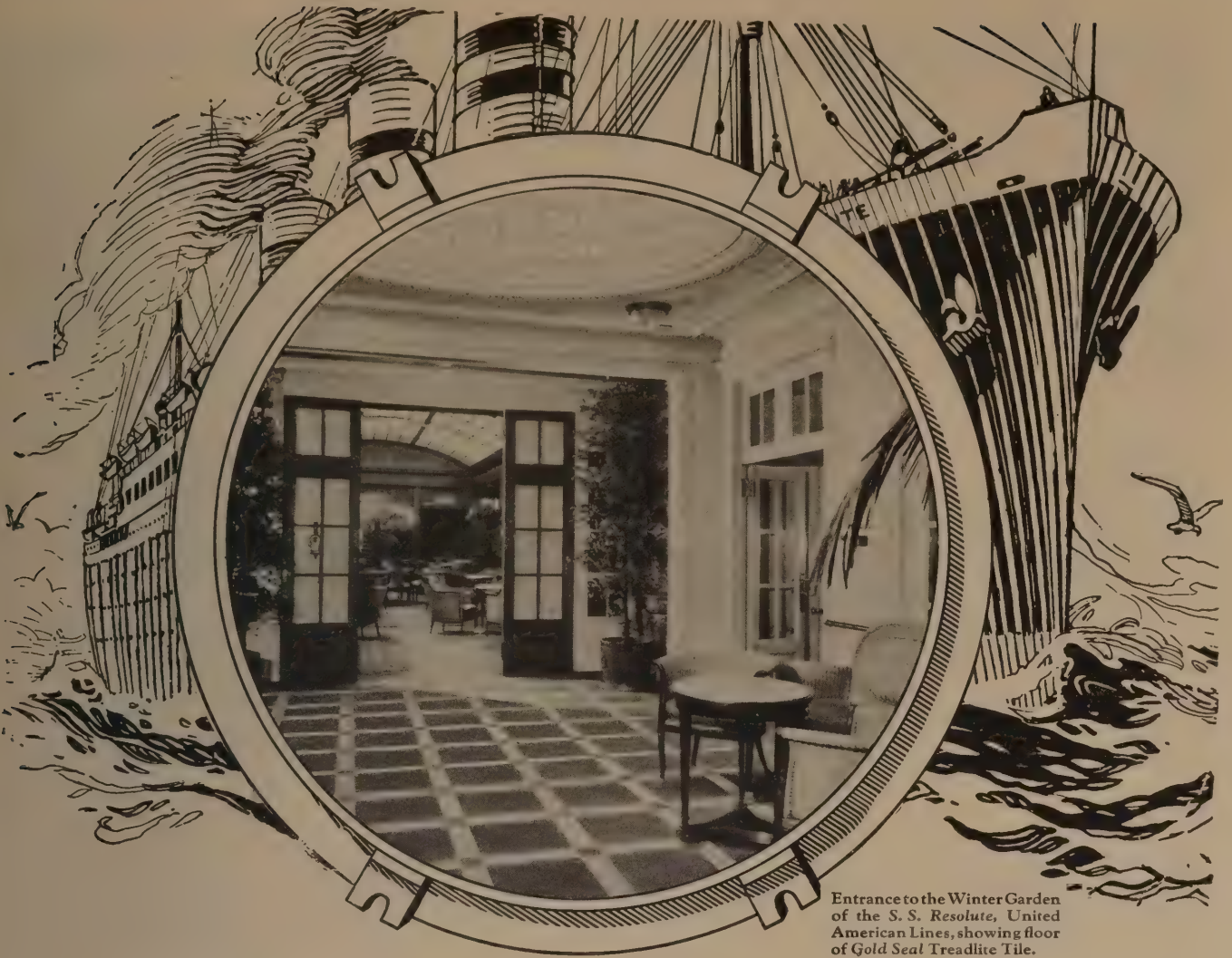
THE Regency period style with its mixture of free curves and its restraint in their use which later disappeared completely, offers a large range of motives for wallpaper design.

The great room at Versailles, illustrated above, exemplifies the satisfying use that can be made of such papers in the more formal rooms of the large house being erected in America today. Regency papers impart a nobility and beauty to a well proportioned room which no other style can provide.

WALLPAPER

MANUFACTURERS ASSOCIATION
of the United States
461 EIGHTH AVE., NEW YORK, N. Y.

WRITE TO OUR INTERIOR DECORATION SERVICE BUREAU FOR PRACTICAL CO-OPERATION IN SUPPLYING ARCHITECTS
SAMPLES OF WALLPAPER AND OTHER AIDS TO THE SOLUTION OF SPECIFIC PROBLEMS IN THE DECORATION OF WALLS.



Entrance to the Winter Garden of the S. S. Resolute, United American Lines, showing floor of Gold Seal Treadlite Tile.

Bonded Floors go 'round the world—

In January, the ocean liner *Resolute* sails out of New York harbor for a lengthy round of pleasure, a 'round-the-world' cruise ending late in May.

Everything possible has been done to convert the big liner into a luxurious floating home. Bonded Floors of Gold Seal Treadlite Tile, attractive, quiet and comfortable, are part of the special equipment and furnishings provided.

The same reasons that have led the big steamship companies to select Bonded Floors for the *Resolute* and other large ships make them the logical choice wherever attractive resilient floors of proven durability are desired.

Installed by skilled workmen, Bonded Floors are good for many years. That is why Surety Bonds against repair expense (issued by U. S. Fidelity and Guaranty Co.) are obtainable with floors installed according to our specifications.

BONDED FLOORS COMPANY, INC.

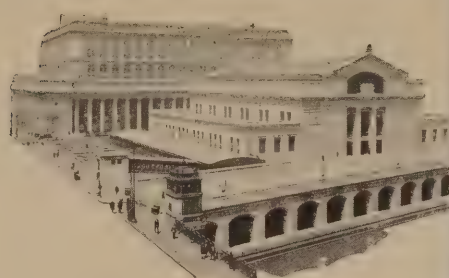
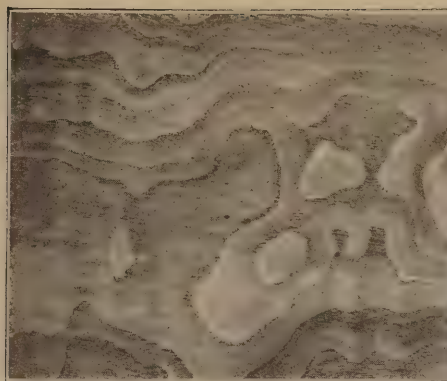
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BONDED FLOORS

Resilient Floors

for Every Need





New Union Station,
Chicago, Ill.



Walnut benches that will be even more beautiful 100 years hence

AMERICAN WALNUT

Not only for beauty

But for the wear and tear of railroad service

ARCHITECTS of experience—as Graham, Anderson, Probst and White, designers of this impressive station—looking to the practical as well as the decorative, well know that walnut, delicately grained as it is, will stand punishment as no other beautiful wood can.

So it is not at all surprising to see American Walnut selected for the heavy, twenty-four hour service of this railroad waiting room. Generations to come will find these handsome benches that fit so splendidly into the dignity

of this monumental scheme . . . even more lovely, attractive and useful than today. For walnut improves with age—it mellows.

The centuries have given to walnut



Station dining hall panelled with walnut

an incomparable reputation for everlasting durability and strength. Furniture, panelling, woodwork—wherever you would specify utility as well as beauty—use American Walnut.

Once again, in this modern Terminal, American Walnut has been called upon to lend its quiet restful dignity and decorative qualities—in the dining hall. Intriguing panels of tawny browns, interlaced grainings, the charm of simple, uncarved areas—make walnut always unobtrusively charming—irresistible. Truly “a wood you love to live with.”

AMERICAN WALNUT

“THIS IS THE WALNUT AGE”

Furniture lovers—send for “The Story of American Walnut.” Architects, builders, those interested in the home—send for “American Walnut for Interior Woodwork and Panelling.”

IT glows with the beauty of flower-bordered paths, this chintz with its clustered roses, dahlias and verbenas. And it has the warm gay tints and mellow tones so admired in the chintz of other days.

Those "chints" of other days! They had a fascination and a charm which carried them into wide-spread favor.

Early in the 1600's the East India Companies began importing "chints" into Europe, and they met with unusual success. In England the Queen herself had a bed hung with "chints from Mass-lapatan on the coast of Coromandel," and there were instances where all the draperies and coverings of a room were of chintz and the walls done in the same design!

Royal residences at Saint Cloud, Versailles and Montreuil all had their chintz hangings. In fine, everyone had at least one chintz room, and every fashionable wardrobe a chintz frock or waistcoat. Small wonder that they should attain such popularity, with their bright clear colors and fascinating themes!

TODAY Schumacher chintzes reproduce the beauty of those earlier prints in all their wealth of design: fanciful oriental patterns; brilliant "Toiles de Jouy"



A glazed chintz with the haunting charm of fragrant gardens

of historic interest; and the floral motifs of the Georgian period. There are in this collection prints to add to the color and charm of any decorative scheme.

The semi-glazed chintz shown here is only one of the attractive prints dealers and decorators will find in Schumacher's wide assortment of fabrics.

THE VALUE AND ECONOMY OF DECORATING SERVICE

There are many people of means who have hitherto been reluctant to seek the service of a decorator, principally through lack of understanding of how the decorator functions. To explain to them the value and true economy of such a service we have prepared an interesting booklet entitled, "Your Home and the Interior Decorator."

This booklet, richly illustrated in color, is being mailed to decorators, upholsterers and the decorating service of department stores. If you have not already received a copy please write us. And ask for details of special offer enabling you to send this out to prospective clients. F. Schumacher & Co., Dept. J-1, 60 West 40th Street, New York, Importers, Manufacturers and Distributors to the trade only, of Decorative Drapery and Upholstery Fabrics. Offices also in Boston, Chicago, Philadelphia and Paris.



This semi-glazed chintz with its smooth, dust-resisting surface is offered in various color combinations on a ground of mauve, saumon, mastic and blue. For effects that can be achieved only with a sheer material, this same design has been made up in a voile, delicate, softly colored and charming. The voile comes in gold, jade, grey, henna, mauve and blue.



F-SCHUMACHER & CO.



Pencil sketch of High Pulpit and Canopy, All Saints Episcopal Church, Pasadena, Calif.
Johnson, Kaufmann & Coate, Architects

CHURCH morale is oftentimes invigorated and interest revived and membership increased by new furnishings correctly conceived. Our designers co-operate with architect and church in planning special work of this nature or in developing memorials of carved or cabinet character in wood.

Our brochure, *Ars Ecclesiastica*, showing many beautiful creations from our studios mailed upon request.

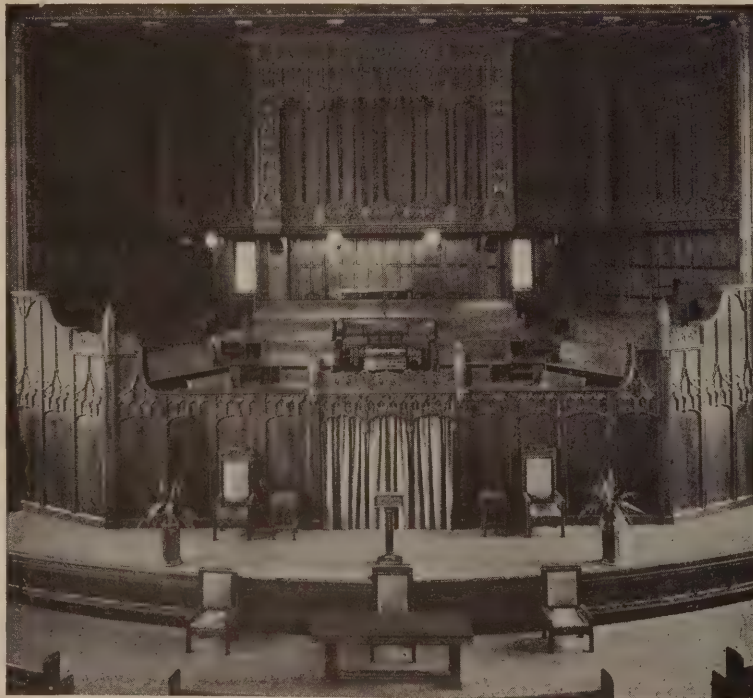
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and Registers are used exclusively in this handsome Buenos Aires Bank, the equipment needed constituting one of the largest orders ever exported.

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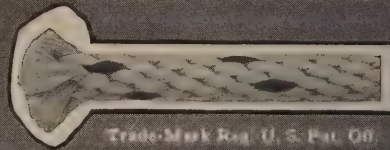
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See Page 1443, Sweet's Catalog

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MADE of extra quality
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or finish. No loaded centre
to increase weight and
decrease wear.

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SAMSON CORDAGE WORKS
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The Murphy In-A-Dor Bed is universal in its application. In small homes and magnificent apartments and hotels it creates higher standards of living at lower cost.

IN MODEST HOME or PALATIAL APARTMENT

To build one room and get two is the building accomplishment made possible by the Murphy In-A-Dor Bed—the only bed of its kind. Concealed behind standard three-foot closet door—permitting regular use of closet space—the Murphy In-a-Dor Bed transforms living room, dining room, sun parlor, den and playroom into

sleeping rooms with hardly more effort than opening the door. It swings easily, is perfectly balanced in any position and rests securely on the floor when down. The best of springs insures restful sleep.

Better Buildings at Lower Cost

Splendidly finished and beautifully designed the Murphy-In-A-Dor Bed is an asset to any well-equipped home, apartment or hotel and reflects the present day spirit of efficiency and economy. For it permits the construction of better building at lower cost, secures greater financial return on invested capital, lowers furnishing expense and simplifies housekeeping.



Murphy In-A-Dor Beds are made in the four standard bed sizes, in designs to fit well in any surroundings, and are built to last as long as the building lasts.



This full-size bed swings on a fixed pivot through an ordinary three foot door. Occupies little closet space. Permits easy access to closet when down or up.

Architects, builders and others interested in modern building improvement will find Murphy Co-operative Service very helpful. Write for descriptive literature.

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Miami, Fla.	234 Columbia Bldg.
St. Louis, Mo.	315 N. 10th St.
Detroit, Mich.	7th Floor, Kresge Bldg.
Birmingham, Ala.	513 N. 21st St.
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Kansas City, Mo.	1140 Grand Ave.
Dallas, Tex.	1919 Pacific Ave.
El Paso, Tex.	Neff-Stiles Bldg.
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New Orleans, La.	319 Dryades St.
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Montreal, Canada	153 Peel St.

The Murphy In-a-Dor Bed

Interesting Interiors

By M. REA PAUL, *Consulting Colorist.*

First of a series of articles discussing practical uses of the newer wall finishes obtainable with Dutch Boy white-lead and flatting oil.

The WIPE STENCIL (over Tiffany) FINISH

THE border effect shown in this room is produced by wiping out the glazing colors of a Tiffany Finish through the openings of a stencil. This is known as the Wiped Stencil Finish. Its use is not confined to border effects; it may also be used as an all-over pattern, or as a small motif, with or without panels.

Many variations in effect are possible with the Wiped Stencil Finish. For example, when the stencil is placed against the wall, the glaze may be wiped out entirely, showing a clear-cut pattern. Or it may be wiped lightly to produce a faint and somewhat indistinct outline. Another interesting treatment is produced by wiping clean the areas appearing through the stencil openings; then applying through the stencil some of the glazing colors in full strength. This produces a stencil that is in complete harmony with the side walls, since identically the same colors are employed.

For obvious reasons, the Wiped Stencil Finish is appropriate for use only on smooth, finished plaster.

The rooms in which it may be used effectively are numerous. It is very well suited, when ceilings are low, for use as an all-over finish on the side walls, or as a border, in the hotel grill room, the smoking room of the club or theatre, the chapel of the church, the depositors' room of the bank, the dining-room in the home, or in the entrance hall of the apartment.

Employed in panels, the Wiped Stencil Finish lends a distinctive, interesting atmosphere to the lobby of the theatre, hotel, or club; the interior of the bank; or the reception room of the office. With or without panels it is appropriate for use in the entrance hall of the home, living-room of the home, restaurant of the hotel, interior of the church or theatre, reception room of the school, or waiting room of the railroad station.

Free Booklet on Distinctive Wall Finishes

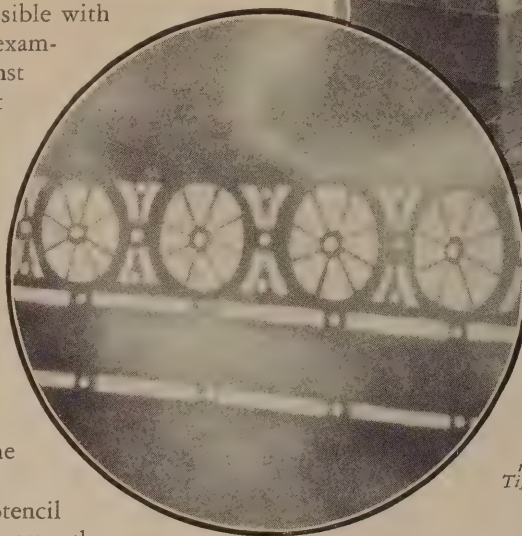
How best to produce the Wiped Stencil Finish is told in detail in a new booklet in full color, "Decorative Possibilities



Walls of this interesting lounging room off the lobby of a public building are treated with the Tiffany Finish, and the additional decoration of the Wiped Stencil Finish, employed in a border.

These illustrations are reproduced from a full color painting appearing in "Decorative Possibilities of Paint." Write our nearest branch for your copy.

Close-up of the interesting border effect obtained in this room by use of the Wiped Stencil over the Tiffany Finish.



of Paint." In it are complete instructions on how to obtain many other interesting finishes with Dutch Boy white-lead and Dutch Boy flatting oil. A copy of this booklet will be sent upon request.

National Lead Company maintains a special Department of Decoration, conducted by color specialists. These men will be glad to assist you, without charge, in planning decorative wall treatments for any type of building. They will help select the schemes of treatment, submit for your approval color suggestions and color renderings when necessary and, if you wish, assist in the writing of your specifications. Address the Department of Decoration in care of our nearest branch.



"Save the surface and you save all."

NATIONAL LEAD COMPANY

New York, 111 Broadway; Boston, 131 State Street; Buffalo, 116 Oak Street; Chicago, 900 West 18th Street; Cincinnati, 659 Freeman Avenue; Cleveland, 820 West Superior Avenue; St. Louis, 722 Chestnut Street; San Francisco, 485 California Street; Pittsburgh, National Lead & Oil Co. of Penna., 316 Fourth Avenue; Philadelphia, John T. Lewis & Bros. Co., 437 Chestnut Street.



Sieg & McDaniel, Architects

Drawn by W. J. Aylward

Copyright 1926, P & L

36,000 People who went through this house prove the durability of "61" Floor Varnish

NO LESS than thirty-six thousand people tramped over the floors of this beautiful home in Memphis, Tennessee, during the two weeks it was open to public inspection. The floors, finished with "61" Floor Varnish, were still in good condition at the close of the exhibition. A letter, giving the interesting details, appears in the column at the right.

The properties of "61" Floor Varnish, which enable it to withstand such punishment, lift it above the common run of varnishes and make it an ideal floor finish. Ordinary varnishes may be beautiful; they may be waterproof, but if they do not have a tough, inherent elasticity, they are not suitable for floors.

"61" Floor Varnish is not only durable and wear-resistant but possesses more than ordinary beauty. And of course, water and other liquids, hot or cold, do not spot or turn it white.

PRATT & LAMBERT-INC., 122 Tonawanda St., Buffalo, N. Y.
Canadian Address: 34 Courtwright St., Bridgeburg, Ontario

The popular rubbed effect may be easily and quickly obtained on floors and woodwork without the labor and expense of rubbing, by simply applying a coat of "61" Floor Varnish, *Dull Finish*, over two coats of the Gloss; and at no sacrifice of its marproof and waterproof qualities.

The desire to fully protect and beautify that which they have created prompts leading architects to specify "61" Floor Varnish, which for nearly 40 years has been famous for its durability.

The evolution of "the varnish that stands the hammer test" began in 1849, and out of these many years has come vast experience in varnish making.

Highly appreciative of its standing with the architectural profession, Pratt & Lambert-Inc. strives daily to maintain its position through manufacturing only the highest type of surface-saving materials.

"61" FLOOR VARNISH

A LETTER
FROM THE ARCHITECTS

Here is a letter from Sieg & McDaniel, one of the leading architectural firms in Memphis, designers of the Jones house shown on this page.

Memphis, Tenn., October 2, 1925.

Pratt & Lambert, Inc.,
Buffalo, N. Y.

Gentlemen:

Responding to your request for further definite information as to the exact number of people who went through the house designed and built by us in the section known as "Belleair Woods," for Mr. Frank G. Jones, we regret that we are unable to give you exact figures.

We did, however, keep a careful check the first week and by actual count, the number was 24,756. It is a conservative estimate that not less than 36,000 people passed thru the house during the two weeks it was on exhibition.

As we previously advised you, "61" Floor Varnish was used thruout on all the floors, and it is a pleasure and satisfaction to repeat that the varnish did not show any appreciable signs of wear. We consider this a really practical floor varnish test and the most severe one that has ever come to our attention.

Many people commented upon the way the floor finish stood up under the unusual wear to which it was subjected.

While it is our usual practice to write only "open" specifications, we have determined to specify and use nothing but "61" on floors, after witnessing this remarkable demonstration of the durability of "61" Floor Varnish.

If we can give you any further information we shall be glad to do so.

Yours very truly,

Sieg & McDaniel, Architects
by R. L. Sieg.

RLS:KB

"61" Floor Varnish is only one of hundreds of varnish products manufactured by Pratt & Lambert-Inc. Outstanding among the others are Vitralite, the Long-Life Enamel, for all white enamel work, (interior and exterior) and "38" Preservative Varnish, for interior trim. The Pratt & Lambert Specification Manual, containing helpful information on painting, varnishing and enameling, will be sent to any architect upon request.

The Pratt & Lambert Architectural Service Department will be pleased to help you with your wood-finishing problems.

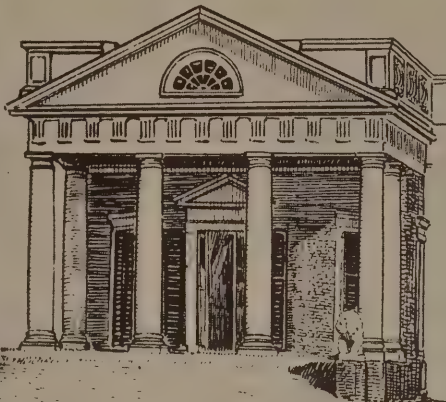


PRATT & LAMBERT VARNISH PRODUCTS

THIS IS NUMBER SEVEN OF A SERIES OF "EARLY AMERICAN ARCHITECTURE"



"Monticello"—Home of Thomas Jefferson, started 1769-1770. Jefferson was his own architect.



Detail of Portico showing turfed ramp



Chamber showing "porthole" ventilators

YEARS before Monticello was built, Devoe was founded in New York City.

Today, Devoe is known as "the oldest, most complete and highest quality paint and varnish line in America". The Devoe reputation won during 172 years of paint and varnish making stamps Devoe Products "22 karat."

Paints may look alike in the can, but it is years before their true merit shows. So after all there is only one way in which you can judge paints—on the reputation of its makers.

When you specify Devoe you are sure of unfailing quality, you are sure that they have been honestly and skilfully made. Isn't it worth something to be free of risks; of disquieting doubts; of uncertainty?

Devoe & Raynolds Co., Inc.

Executive Offices: 1 W. 47th St., New York City

DEVOE

PAINT AND VARNISH PRODUCTS

Q At the completion of the series, reprints will be mailed to all architects who have requested them. Write, today.



How they tested Varnish at Peabody College

"House Furnishing and Care" is one of the courses of the Home Economics Department at George Peabody College for Teachers, Nashville, Tennessee. In connection with this course, the Department decided to conduct a scientific and absolutely impartial test as to the relative durability of floor finishes.

Test Number One: a long, narrow walkway was constructed and marked off into twenty-two test sections. One-third of the walkway was finished with different brands of varnish; one-third with oil preparations; the remainder with paints.

A railing paralleled the walkway, thus compelling the several hundred students who entered the building *daily* to traverse the entire length of the walk. The amount of wear received was undoubtedly equivalent to many years' use in any ordinary home.

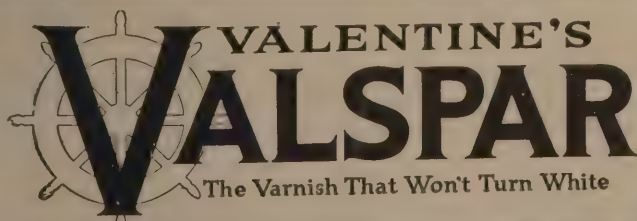
At the end of the testing period—approximately six months—the comparative durability of the different finishes was judged by faculty members and graduate students—seventy-three in all. Of the

twenty-two test sections, number 5, finished with Valentine's Valspar, showed the least wear and *won the test!*

Test Number Two: the walkway was then taken up and placed in the garage as a runway for automobiles. For six months it was subjected to constant drenchings while cars were being washed. At the end of this period the different finishes were carefully judged—and Valspar scored *first place again!*

Not a drop of water had penetrated the wood of the Valsparred section, thus proving the *absolute waterproofness* and unequalled durability of the Valspar film. As for the other sections, the finishes were destroyed, allowing the water to soak into the wood.

These tests show why Valspar is always specified whenever the best varnish, varnish-stain or enamel is desired. They prove absolutely that Valspar's wonderful endurance combined with absolute waterproofness makes it the supreme varnish for every use—indoors and out.



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Largest Manufacturers of High-Grade Varnishes in the World

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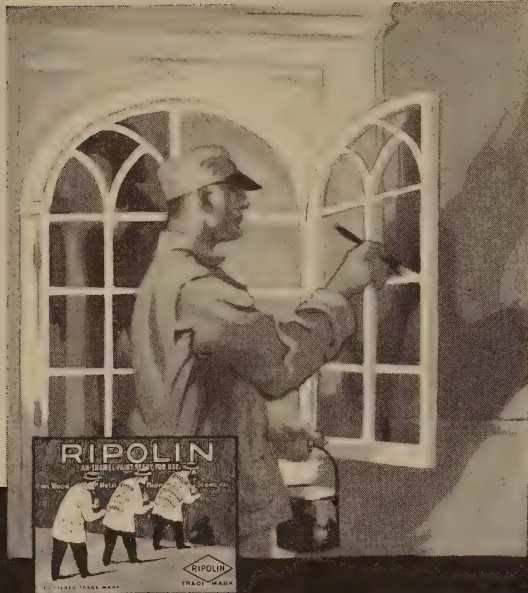
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London

Paris

Amsterdam

W. P. FULLER & CO., Pacific Coast



AS breakfast nook and window seats, china cabinet and cupboard grow from artistic conception into beautiful reality, it is easy to realize that here indeed the finish must be permanently attractive—for built-in furniture must remain forever new in modern homes.

And it is always with satisfaction that an architect watches the painter break the seal on an odd-shaped can with a familiar label of quaint design—for in that can is Ripolin, the original Holland enamel paint.

for Built-in Furniture

RIPOLIN

THE ORIGINAL HOLLAND ENAMEL PAINT

for Outdoor Furniture

AND it is natural that an architect would select Ripolin, for he is eager to have the painstaking care and thought he put into his design preserved and displayed to its best possible advantage. So wherever a surface, inside or out, must retain its charm for long—Ripolin is specified and used.

And Ripolin's economy is as marked as its beauty, for long life is and always will be a deciding factor in its choice. For all exterior and interior trim, Ripolin insures every architect a liberal reward in his client's satisfaction.



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In Canada:
The Glidden Co., Ltd., Toronto, Ont.

"The Murphy Varnish Company once told me that it was not its ambition to have the largest varnish business in the world, but to be sure that wherever the name Murphy appears upon a can of varnish, or any other

finish, that name would stand for a good job faithfully done and fully delivered. If that way of doing things should lead to the largest varnish business in the world, well and good, but not on any other terms."

S P E E D *w i t h o u t* S A C R I F I C E

The incessant demand for speed in the manufacture of furniture and motor cars produced the spray brush and quick drying enamels. We have taken another step in the same direction by producing a lacquer which makes available to the house painter a finish applied with a brush which dries in half an hour.

Murphy Brushing Lacquer is flowed on from a brush like enamel, and has a similar appearance. It quickly hardens into a smooth, attractive film, which stands up under hard wear, heat and dampness. It affords almost any color, either in the original package or

by mixing, and in the white especially it has a wide range of usefulness.

We believe it to the advantage of every architect to know about Murphy Brushing Lacquer, and see that the man who writes his painting specifications keeps it in mind on contracts where time is essential. In these days of vast building operations erected on borrowed money, where every day adds to the cost and expense, an architectural finish which can be applied so quickly, which dries immediately, and which gives so satisfactory a service, has a very real place.

Murphy BRUSHING Lacquer

MURPHY VARNISH COMPANY
NEWARK · CHICAGO · SAN FRANCISCO · MONTREAL

Improve Industrial Horizons with Aluminum Paint



*[Aluminum Paint consists of Aluminum Bronze Powder
mixed with a suitable vehicle of oil or varnish]*

ALUMINUM Paint sounds a new note in Factory treatment.

On metal buildings, roofs, tanks, towers—all wood or metal structures—Aluminum Paint protects longer and better.

And it beautifies as it protects.

Better protection is the direct result of a new painting principle inherent in Aluminum Paint—"leafing."

Brief Facts about Aluminum Paint

- Consists solely of pure Aluminum Bronze Powder mixed with a suitable vehicle of oil or varnish.
- Flakes of powder "leaf" together when paint is applied, forming rustproof—waterproof—weatherproof coating.
- Protects longer and stays cleaner longer than ordinary paints.
- Can be sprayed or brushed on as desired.
- Costs no more—first and last—than other kinds of paint.
- Sounds a new note in factory treatment.

Thin flakes of
pure metallic
Aluminum
(Aluminum

Bronze Powder) "leaf" together when the paint is applied, forming a continuous durable coat over the surface.

Rustproof—waterproof—weatherproof—this coat is little affected by smoke, soot, fumes or gases.

As it protects, it beautifies.

Aluminum Paint destroys dinginess. It improves industrial horizons.

Our booklet—"Aluminum Paint"—visualizes in sketches many improved horizons. The booklet tells the interesting story of Aluminum Paint. It gives the technical facts.

We will be glad to send you a copy upon request.

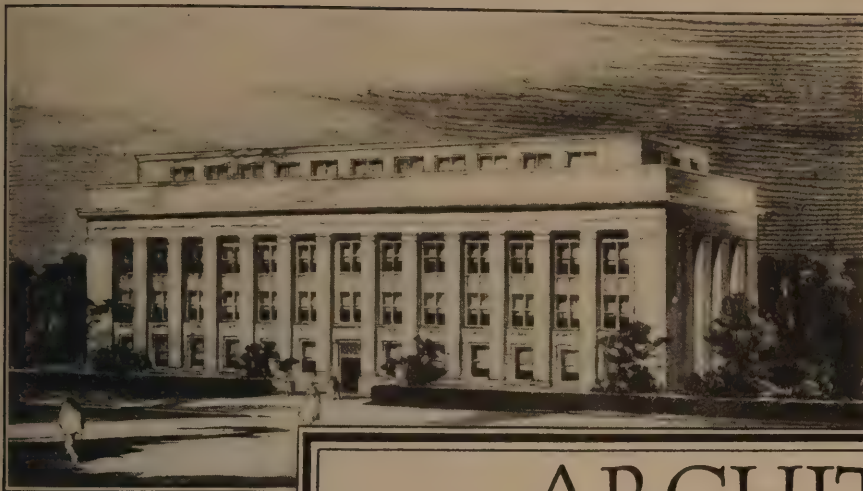
Aluminum Paint

Aluminum Company of America

2400 Oliver Building

Pittsburgh, Pa.

OFFICES IN EIGHTEEN PRINCIPAL AMERICAN CITIES



One of the group of buildings comprising the Indiana War Memorial. S-W finishes used throughout. Architects: Walker & Weeks, Cleveland.

How this Guide resembles an Architect's plan

An architect's plan might be, to the unthinking, merely some lines on paper, and nothing more. To the intelligent mind, however, the plan represents years of education and experience.

To the unthinking mind, the Architect's Painting Guide might, likewise, seem but a list of products. Every architect knows, nevertheless, that it represents the crystallized experience of many years.

The knowledge and resources of the largest paint and varnish makers in the world, Sherwin-Williams, are placed at your service through this Guide. You are invited to make full use of it.

For details of specifications see: The Sherwin-Williams Book of Painting and Varnishing Specifications (sent upon request). Also see Sweet's Architectural Catalogue.

We invite correspondence—write to the Department of Architectural Service.

The Sherwin-Williams Co.
406 Canal Road
Cleveland

ARCHITECTS' PAINTING GUIDE

FOR PAINTING · VARNISHING · STAINING AND ENAMELING

IMPORTANT: Each of the products specified below bears our name and trade mark

SURFACE	TO PAINT <i>Use product named below</i>	TO ENAMEL <i>Use product named below</i>	TO STAIN <i>Use product named below</i>	TO VARNISH <i>Use product named below</i>
BRICK WALLS (ext).....	S-W Concrete Wall Finish	Old Dutch Enamel, Gloss		
CONCRETE WALLS....	S-W Concrete Wall Finish	Old Dutch Enamel, Gloss		
CEMENT FLOORS.....	S-W Concrete Floor Paint	S-W Concrete Floor Paint		
EXTERIOR WOOD SURFACES.....	SWP (Sherwin-Williams Prepared Paint)	Old Dutch Enamel, Gloss	S-W Preservative Shingle Stain S-W Acid or Oil Stain	Rexpar Varnish
EXTERIOR METAL SURFACES.....	Kromik Structural Steel Primer Metalastic (for finishing coats)	Old Dutch Enamel, Gloss		
FACILITY WALLS (Interior).....	S-W Eg-Shel Mill White S-W Fume Resisting White	Old Dutch Enamel or Enameloid		
FLOORS (Interior Wood)...	S-W Inside Floor Paint (the enamel-like finish)	S-W Inside Floor Paint (the enamel-like finish)	Oil Stain or Floorlac Varnish Stain	Mar-Not Floor Varnish
GALVANIZED IRON SURFACES.....	S-W Galvanized Iron Primer (Finish with any Paint)	S-W Galvanized Iron Primer and Old Dutch Enamel		
INTERIOR WALLS AND CEILINGS.....	Flat-Tone Wall Finish S-W Eg-Shel Mill White	Old Dutch Enamel or Enameloid		
INTERIOR WOOD TRIM.....	SWP (Sherwin-Williams Prepared Paint)	Old Dutch Enamel or Enameloid	S-W Acid Stain S-W Handcraft Stain S-W Oil Stain	Scar-Not Varnish Velvet Finish Varnish (for imitation rubbed effect)
PORCH FLOORS AND DECKS.....	S-W Porch and Deck Paint			
RADIATORS AND PIPES.....	Flat-Tone Finish or S-W Gold Paint S-W Aluminum Paint	For White—S-W Snow White Enamel For colors—Enameloid		
ROOFS—Metal.....	SWP or Metalastic (if Galvanized, prime with S-W Galvanized Iron Primer)			
ROOFS—Wood Shingle...	SWP		S-W Preservative Shingle Stain	
STACKS AND HOT SURFACES.....	Salamander Smoke-Stack Black			
STRUCTURAL STEEL..	Kromik Structural Steel Primer Metalastic (for finishing coats)			
TO DAMP-PROOF FOUNDATIONS....	S-W Antydamp			
TO DAMP-PROOF INTERIOR WALLS ABOVE GRADE....	S-W Plaster Bond			
WOOD PRESERVATIVE			S-W Carbolic-oil	

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you take pride
in designing ~

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**BIRD'S
NEPONSET BLACK**
(Waterproof)
Building Paper

BIRD'S NEPONSET BLACK [waterproof] building paper is thoroughly saturated and impregnated, through and through, with waterproofing asphalt. Its glistening, asphalt-coated surface sheds water like a duck's back, keeps out drafts and dampness and serves as a permanent barrier against the elements.

NEPONSET BLACK is absolutely odorless and can safely be specified for cold storage use and for ice houses. It is extra heavy, weighing a full 50 lbs. per roll of 500 sq. ft. It is carried in stock throughout the country by leading building supply and hardware dealers. Your contractor or builder can get it at a moment's notice. Complete specifications for the use of BIRD'S NEPONSET BLACK [waterproof] building paper are given in Sweet's Architectural Catalogue. Ask your specification writer to refer to them.



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Established 1795

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Manufacturers of
**NEPONSET TWIN SHINGLES
PAROID ROOFING**

Bird's Asphalt Twin Shingles, Four-in-one Shingles, and Shingle Design Roll Roofing; Bird's Neponset Board; Bird's Neponset Rugs and Floor Coverings.

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**DIXON'S
SILICA~GRAPHITE PAINT**

for the economical protection of all metal and wood work.

Long service records of from five to ten years are obtainable with Dixon's Paint because of its unusual wear-resisting pigment—flake silica-graphite, and its vehicle—pure boiled linseed oil.

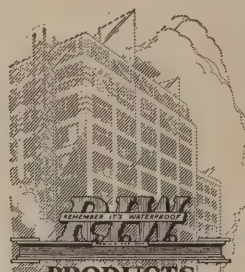
The pigment is inert, aids in preserving the original elasticity of the vehicle, increases the thickness of the paint film and has long life. The vehicle cannot be equaled by any other substance.

Write now for Booklet 224-B and long service records.

JOSEPH DIXON CRUCIBLE CO.
Jersey City, N. J. Established 1827

**Concrete Anti-Freeze
and Accelerator**

"R. I. W." Quick-Done



PRODUCTS
PRESERVE METAL, CONCRETE,
PLASTER, WOOD, and
OTHER SURFACES

THE primary purpose of this material is to hasten the initial and final set of portland cement construction without weakening its tensile strength. "R. I. W." Quick-Done is also used extensively to prevent the freezing of concrete and cement masses, an invaluable asset in winter.

Ask Dept. F for specific information.

TOCH BROTHERS

ESTABLISHED 1848

INCORPORATED 1922

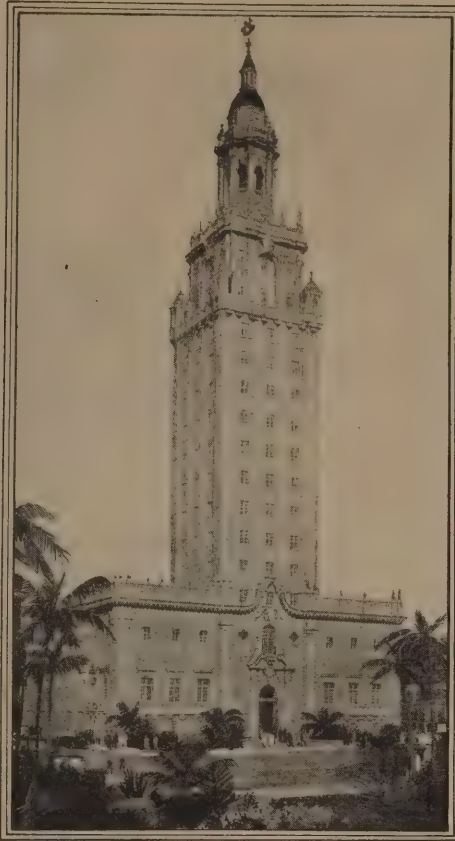
Technical and Scientific Paint and Varnish Makers

110 EAST 42nd STREET, NEW YORK

Works: LONG ISLAND CITY, N. Y.

IN THE FINEST BUILDINGS

this handsome, lustrous white paint finish



The 18-story tower of the *Miami Daily News Building*. Interior walls and woodwork are painted with Barreled Sunlight.

IN the beautiful new building of the *Miami Daily News*, as in hundreds of others—hotels, schools, hospitals, etc.—Barreled Sunlight has made a remarkable record for good looks, lasting whiteness, and real economy.

Architects who check up on Barreled Sunlight's unusual qualities are writing it into their specifications for a high-grade, durable white finish on woodwork everywhere—and for walls of hallways, bathrooms, lavatories, kitchens, etc.

Ground to the finest degree, Barreled Sunlight gives a surface as smooth and handsome as the finest enamel—yet it costs less than enamel, is easy to apply, and requires fewer coats.

Made by the exclusive Rice Process, Barreled Sunlight is guaranteed to remain white longer than any gloss paint or enamel, domestic or foreign, applied under the same con-

ditions—also, not to flake or scale if properly applied.

The non-porous surface of Barreled Sunlight offers dirt no chance to sink in. It can be washed free of superficial dust as easily as white tile—and repeated washings will not wear away this durable surface.

Barreled Sunlight may be applied by brush or spray. It is sold in 55 and 30 gallon churn-equipped steel drums and in cans from $\frac{1}{2}$ pint to 5 gallons. Easily tinted any desired shade. Where more than one coat is required, use Barreled Sunlight Undercoat to insure the most satisfactory result.

See our complete catalog in Sweet's Architectural or Engineering Catalog. Use the coupon to obtain sample panel and our booklet "3 Questions Answered" including specifications.

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THE RICE PROCESS WHITE

Barreled Sunlight

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3 Dudley Street, Providence, R. I.

Please send us a painted sample of Barreled Sunlight and your booklet, "3 Questions Answered" including specifications.

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Street.....

City..... State.....

Save the surface and
you save all—*that's the way*

ARCHITECTS appreciate the *uniformity* of Long-Bell trade-marked Douglas Fir. Where once the manufacturing methods and quality of lumber varied widely, here in this large annual production of lumber and timbers the *uniformity* of manufacture is noticeably a welcome feature. The Long-Bell trade-mark on the end of the piece is not only the identification mark of more than fifty years' experience—it is the assurance of lumber and timbers regularly meeting high standards of production—*maximum construction value* in Douglas Fir lumber and timbers.

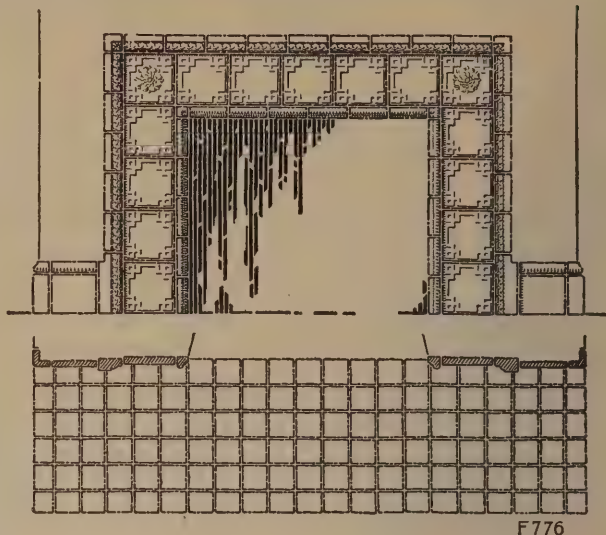
THE LONG-BELL LUMBER COMPANY
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ROOKWOOD

Tiles meet every architectural and artistic requirement. Call upon your dealer or write us for our new color chart and revised price lists of our Faience Tile.

THE ROOKWOOD POTTERY COMPANY
Architectural Dept., Cincinnati, Ohio

FRENCH'S FLAT FINISH

“The True Flat Paint.”

Will not flake or peel.

Write us for detailed
information.

Samuel H. French & Co.
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Manufacturers

PHILADELPHIA

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Established 1844

Incorporated 1920

why 100% PURE VARNISH?

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FOSSIL GUMS—
VEGETABLE OILS—
TURPENTINE

why PURE FOSSIL GUMS

The solidified residue of the sap of trees which grew, died and were buried thousands of years ago. Under heat and pressure this residue was transformed into hard, knobby lumps of tough, fossilized gum. This is mined by natives in tropical countries and shipped to makers of good varnish the world over. AMBER is the best known and rarest of Fossil Gums.

When used in Varnish, Fossil Gums have excellent linseed oil absorbing and amalgamating powers and form a hard, tough, durable and elastic film.

The film from rosin or ester gum (treated rosin) is generally brittle. It cracks, breaks and powders easily and because rosin has in itself no elasticity, it perishes quickly.

Know what you buy



**NO
BENZINE
NO ROSIN**



STABILIZED BY KOLL LOCK-JOINT COLUMNS



Smithers Residence, White Plains, N. Y.

Donn Barber, Architect

The classic beauty and rugged strength of Koll Lock-Joint Columns render them highly suitable for the finest buildings.

Koll Columns are entirely different from the ordinary kinds. They meet every architectural requirement; are painstakingly made of thick clear material; have patented lock joints which *cannot come apart*.

Catalog I-47 of columns or new Catalog I-51 of Colonial Entrances gladly sent on request. Address Hartmann-Sanders Co., 2151 Elston Ave., Chicago, Ill. Eastern office and showrooms, 6 E. 39th St., New York City.

HARTMANN-SANDERS
Colonial Columns





The Ballroom of Hotel Ambassador, New York City. Warren & Wetmore, architects. Floored with Ritter Appalachian Oak Parquetry Flooring, Herringbone design.



Your client is assured beautiful floors ~

— when you write *Ritter Appalachian Oak Flooring* in the specifications. *Ritter* floors completely and permanently satisfy the owner, because he never sees more attractive floors anywhere.

Ritter flooring is manufactured in our own mills, exclusively from oak grown on the upland slopes of the Appalachian mountains, where ideal conditions of climate, soil and moisture combine to produce the slow growth essential to the formation of fine grain and smooth, even texture.

These qualities, plus the superior method of manufacture and grading in the *Ritter* mills make *Ritter Appalachian Oak Flooring* economical to lay, nail and finish. The saving effected in this process, together with the greater beauty obtained, more than offsets the slight difference in initial cost.

Every piece of *Ritter Appalachian Oak Flooring* is branded — “W. M. Ritter Lbr. Co.”

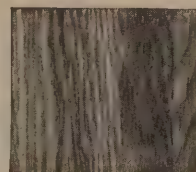
Complete information on *Ritter Appalachian Oak Flooring* will be sent to any architect on request. Address Dept. F.

Note: The same qualities that enhance the beauty of Ritter Oak Flooring also make Ritter Oak Lumber superior for interior trim.

W. M. RITTER LUMBER COMPANY
Appalachian Lumbermen for more than thirty years
Home Office: Columbus, Ohio



1



1



2



2

Each ring on the ends of the logs represents one year's growth. Where growth is rapid, (1) the rings are farther apart, and the grain is coarse and irregular. Where growth is slow, (2) the rings are close, and the grain is fine and even.





interior trim, doors, floors and paneling assure that elegance, permanence and nearly mar-proof hardness of interior finish, which not only reflect credit on the architect but satisfy his clients' practical demands.



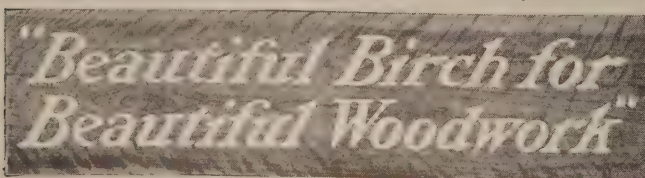
Dining room trim and furniture, all birch

Northern **birch** is equally adaptable to the modest home or finest office building. It gives excellent results with any stain, is unrivaled for enamels and exhibits rare beauty in natural finish. Its extreme hardness makes **birch** unexcelled for floors, whether waxed, varnished or stained.

birch rotary-cut veneers are noted for their enduring elegance and stability—the dense, close grain of **birch** prevents the tendency to checking, so common to some woods.

For further data, see Sweet's Catalogue, or write for "Beautiful Birch" brochure.

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READY!**

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Curtis details
of standardized
architectural
woodwork*



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This portfolio fits in your A. I. A. file under "19 E. Woodwork—Curtis." It consists of 130 sheets, numbered, indexed, with full specifications covering both the line and separate items, for the specification writer.

Here in brief, usable form, are authentic details for all exterior and interior wood forms, including entrances, doors, windows, frames, trim, cabinetwork, stairwork, porch material.

This portfolio is available free to recognized architects specializing on small houses. Make your request through your local Curtis dealer.

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Curtis Woodwork is sold by Curtis dealers east of the Rockies. Make sure the woodwork you buy bears this trademark—

**1866
CURTIS**

The makers of Curtis Woodwork are proud to identify their products by this mark.

Permanence in Architectural Beauty

is achieved in frame by specifying

**Tide Water
Cypress**
"The Wood Eternal"

For bevel and bungalow siding, porch, floors, steps, columns and rails; cornices and all exterior trim; also, for parts which come in contact with the soil—foundation sills, etc. It is pre-eminently fitted for fences, pergolas, etc.

"Tidewater" Cypress, identified by the Arrow trademark shown below, is fortified with a natural preservative against the decay-producing agencies of humidity, bacteria, fungus growths, moisture and contact with the soil.

It takes and holds all paints and stains perfectly. Its beautiful grain—plus durability, economy and ease of working, has favored its extensive use as an interior trimwood in distinctive homes.

For further data see Sweet's Catalogue or write us. We have authentic information on the longevity of "Tidewater" Cypress; likewise, on Tupelo, the hard-wear flooring.



Insist on Trade-marked "TIDEWATER" CYPRESS. Specify no other.

SOUTHERN CYPRESS MANUFACTURERS' ASS'N

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or 1234 Graham Building, Jacksonville, Florida

Keep Right On Building This Winter

Bears and ground hogs still hibernate. But engineers, architects, contractors and building owners don't let winter drive them to cover.

They know that "time is money"—that winter is just as good as any other time to build; so they keep on building in cold weather.

The building industry, as well as the public, recognizes that this practice is not only practical but usually profitable for all concerned.

Winter construction means that builders can continue their work without interruption through twelve months. The builder's crew, which has been trained to maximum efficiency, can be kept intact and steadily employed with profit to everyone.

Winter construction by providing quicker occupancy, brings to the owner an earlier return on his investment.

During the winter there are few delays in getting material. Sand and stone are usually nearby; cement is obtainable on short notice practically anywhere. And these materials come to you ready for use—you make your building right on the job.

In winter, as in summer, concrete is the last word in speed of construction—the champion time saver.

If you have not yet experienced the advantages of winter building, plan now to do so.

And remember, where "time is money" use concrete.

* * *

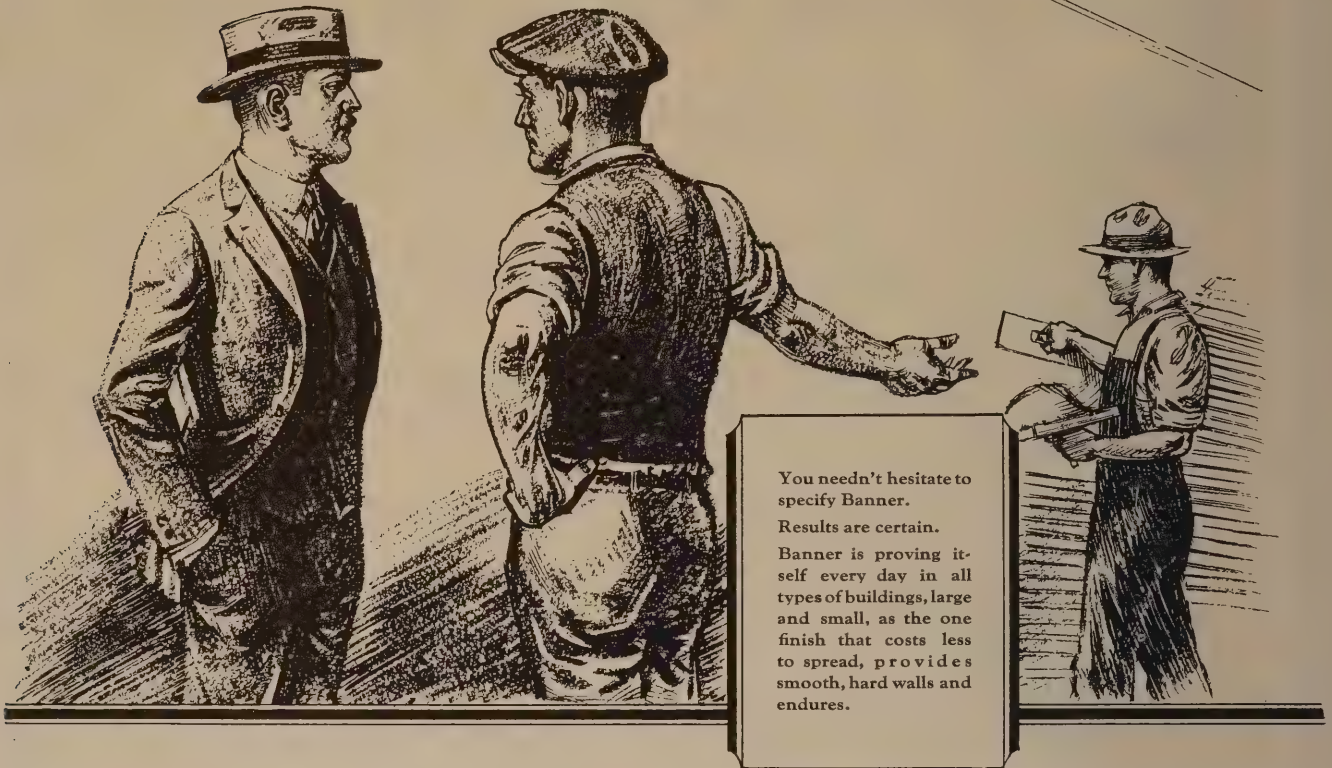
The few fundamental principles of cold weather construction are simple and easy to apply. If you are not familiar with them, ask our nearest District Office for literature on winter building. There is no obligation.

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

Atlanta	Columbus	Indianapolis	Minneapolis	Parkersburg	San Francisco
Birmingham	Dallas	Jacksonville	Nashville	Philadelphia	Seattle
Boston	Denver	Kansas City	New Orleans	Pittsburgh	St. Louis
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RESULTS *are* CERTAIN



Banner is the product of the world's largest single plant, devoted to the manufacturing of only one brand.

From the finest dolomitic limestone in the country to the finished product, every effort of our skilled organization and every motion of the modern machinery and equipment is keyed to the sole idea of making Banner Finish the perfect finish.

Banner

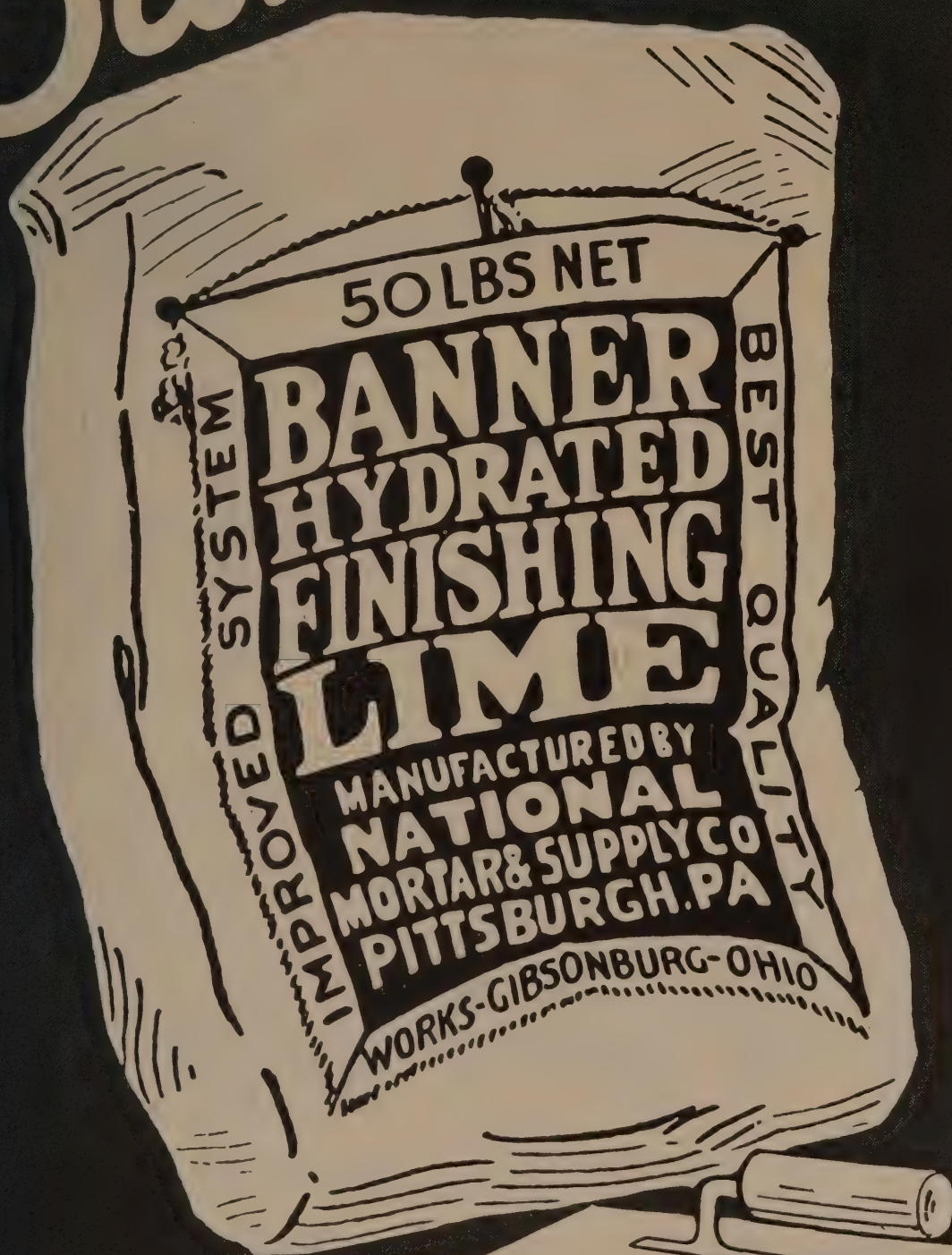
"Easy to spread—
hard to Beat!"

Results are certain when you specify Banner.

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FEDERAL RESERVE BUILDING
PITTSBURGH, PENN'A

MADE AT GIBSONBURG, OHIO, IN THE HEART
OF THE WORLD'S FINEST LIMESTONE DEPOSIT

with
Banner



No. 80
Tensile strength
450 lbs. for 80 lb. sash

No. 100
Tensile strength
550 lbs. for 100 lb. sash

No. 130
Tensile strength
680 lbs. for 130 lb. sash

No. 250
Tensile Strength
940 lbs. for 250 lb. sash



A style ~ a size for every sash

The numbers of the chain correspond to sash weights—no chance for error.

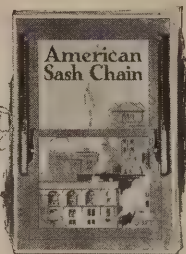
And the chain will prove the correct size for the sash.

American Sash Chain is more widely used than any other chain in America's famous buildings. Ask for the Amer-

~ and we've made it easy for your specification writers to choose the correct Chain for each installation

ican Sash Chain Manual; illustrating various sizes, methods of attach-

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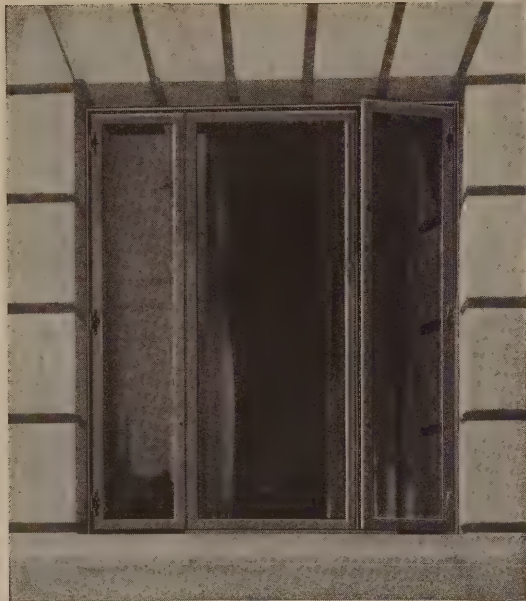


TOWARD TOMORROW WITH LEHIGH CEMENT

BUILDINGS planned for industrial purposes are being designed with an ever-growing regard for their appearance. Forward-looking architects and engineers are making this development possible with no added expense, through an increasing and finer use of concrete. The growing demand for concrete construction will find Lehigh

shaping its policy with eyes to future needs, just as today it is meeting all requirements with twenty mills from coast to coast.

Any architect or engineer can secure the series of renderings by Hugh Ferriss—"Toward Tomorrow," of which the above is one. Address Lehigh Portland Cement Company, Allentown, Pa., or Chicago, Ill.



United States Mortgage Bond Co., Ltd.
H. S. Angell, Architect, Detroit, Mich.

*Featured at the left is one of the windows
used in this building.*

WHEN the architect and owners of the above building decided to use Kawneer Solid Nickel Silver Windows their verdict was based largely upon economy.

The original cost of Kawneer windows is the final cost. The sturdy mouldings which are formed from heavy gauge rustless metal are securely welded at all joints. Painting and finish-

ing or future replacement due to corrosion, is eliminated.

In addition to this the interlocking of sash and jamb is so positive that the passage of cold air through these points is rendered impossible, thus reducing fuel costs.

These features tend to minimize the upkeep and operating costs of any building.

Information pertaining to Windows or Store Fronts will be gladly furnished.



THE
Kawneer
COMPANY
NILES, MICHIGAN

Vital Statistics

DEPARTMENT OF
VITAL STATISTICS

NAME _____

DATE OF BIRTH _____

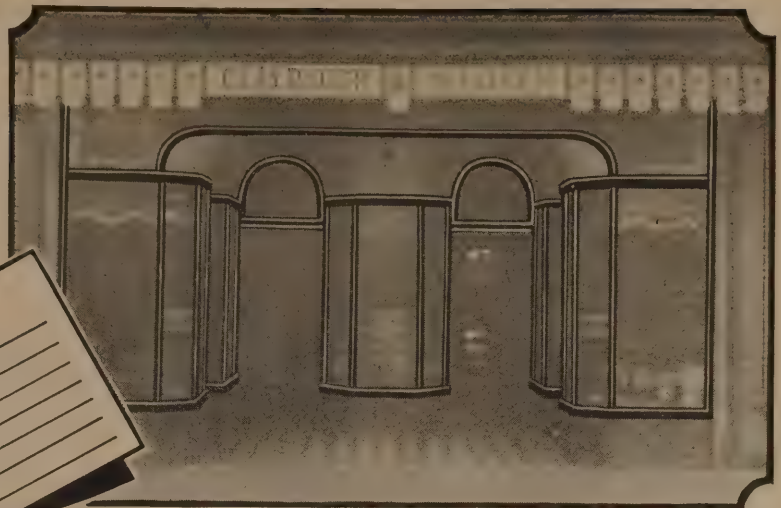
PLACE OF BIRTH _____

INITIALS _____

CITIZENSHIP _____

RELIGION _____

EDUCATION _____



on

STORE FRONTS

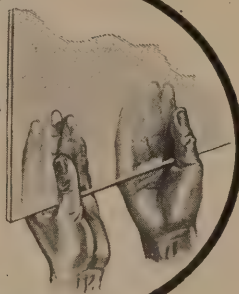
As significant in its way as the detailed records of human lives is the array of vital facts written in the book of store fronts.

Long, serviceable life comes no less in store fronts than in man, from a strong, firmly-knit frame, with vital parts functioning correctly toward a common end.

The Brasco *backbone of steel* imparts stability and strength to the structure of copper moulding. Brasco patented features of design—*indirect screw pressure*—*wide grip on the glass*—are heart and soul of its construction.

Without these distinctive elements, proven practically perfect by years of service in thousands of installations, a store front can be said to fall short of its maximum value—to live a life unduly brief or less than wholly successful.

The Brasco
wide grip on
the glass



Brasco
indirect screw
pressure

Brasco sash is
also available in the
"Series 500" all
copper construction

Added to these Brasco features insuring long service and unusual glass safety are others equally important—permanent beauty, effective ventilation and drainage, ease and economy of installation.

The vital statistics on Brasco are available in our Catalog, sent on request with full-sized details as well.

BRASCO MANUFACTURING
COMPANY

5031 Wabash Avenue

Chicago

Brasco

COPPER STORE FRONTS

1882-1926

Now Four and Forty Years

WITH the coming of the New Year, 1926, the record of S.W. STRAUS & CO. becomes—"Forty-four Years Without Loss to Any Investor". It is a real and genuine record, of a first mortgage security business carried on throughout this period, under unchanged ownership, management, and policy. This record means that—

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Selected List of Manufacturers' Publications

FOR THE SERVICE OF ARCHITECTS, ENGINEERS, DECORATORS, AND CONTRACTORS

The publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to *The Architectural Forum*, 383 Madison Ave., New York, or the manufacturer direct, in which case kindly mention this publication.

ACOUSTICS

Johns-Manville, Inc., Madison Ave. & 41st St., New York, N. Y.
Architectural Acoustics. Booklet. 6 x 9 in. 24 pp. Illustrated.
Treatise on the correction of architectural acoustics in Churches, schools, hospitals, office buildings and other places.

ASH HOISTS—ELECTRIC AND HAND POWER

Gillis & Geoghegan, 544 West Broadway, New York, N. Y.
General Catalog. 8½ x 11 in. 20 pp. Fully illustrated. Contains specifications in two forms (with manufacturers' name and without). Detail ¼ in. scale for each telescopic model and special material-handling section.
The Man-Saving Load Lifter. 5½ x 8½ in. 8 pp. Illustrated. Describes G&G Telescopic and Non-Telescopic Hoists for handling material in factories.

BOILERS—See Heating Equipment

BRICK

Acme Brick Company, Ft. Worth, Tex.

Series No. 1

Architectural designs rendered in Acme Brick. Booklet. 11 x 8½ in. Illustrated. A series of 48 photogravures showing architectural designs rendered in Acme brick. Illustrations show the various types of buildings erected in the Southwest in recent years. Sent free to architects applying on their office stationery.

American Face Brick Association, 1751 Peoples Life Bldg., Chicago, Ill.

The Story of Brick. Third Edition. Booklet. 7 x 9½ in. 55 pp. Illustrated. Presents the merits of face brick from structural and artistic standpoints. Tables of comparative costs. The Home of Beauty. Fourth Edition. Book. 8 x 10 in. 72 pp. Color plates. Presents fifty designs for small face brick houses submitted in national competition by architects. Text by Aymar Embury II, Architect. Price 50c.

"English Precedent for Modern Brickwork." A book of plates and measured drawings of Tudor and Gothic brickwork with a few recent variations of modern architects in the spirit of the old work. Price \$2.00. 100 pp. Illustrated. 8½ x 11 inches.

Architectural Details in Brickwork. Series 1, 2, 3. 8½ x 11 in. Very useful to the architect or draftsman. Sent free to architects applying on their office stationery. To others \$1.50.

BUILDERS

Longacre Engineering & Construction Co., Inc., 345 Madison Avenue, New York City.
Send for latest information.

BUILDING FINANCE

S. W. Straus & Co., 565 Fifth Ave., New York, N. Y.

The Straus Plan of finance is an attractively prepared booklet of 30 pages 6 x 9 inches in size, which summarizes the plan under which S. W. Straus & Co. finance modern office building, apartment house, residential hotel and other types of construction. It is illustrated with sketches of buildings throughout the United States which secure bond issues purchased by S. W. Straus & Co.

BUILDING STONE—See Stone, Building

BUILDING, STANDARD STEEL

Truscon Steel Company, 250 W. Lafayette Blvd., Detroit, Mich.
Truscon Standard Building Catalog. 8½ x 11 in. 48 pp. Contains data and illustrations.

BUILDING, STEEL PRODUCTS FOR

Massillon Steel Joist Company, The, Massillon, Ohio.
Massillon Bar Joists. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Pamphlet containing general information descriptive of Massillon Bar Joist Fireproof Floor Construction, with cuts showing methods of construction and photographs of installations. Detailed Dimensions, Safe Loading Tables, Details of Construction. Catalog. 8½ x 11 in. 32 pp. Illustrated. Catalog contains complete detailed information about each Massillon Bar Joist Structural Unit.

National Steel Fabric Co., Union Trust Building, Pittsburgh, Pa.
Building a Permanent Home. Brochure 4 x 9 in. 20 pp. Discusses the use of steel materials in domestic buildings in a way likely to interest architects and builders.

Sales Manual. Loose leaf. 8½ x 11 ins. Complete data and specifications regarding the use of this company's products.

Truscon Steel Company, 250 W. Lafayette Blvd., Detroit, Mich.
Truscon Data Book. Catalog. 3½ x 6 in. 128 pp. Illustrated. Contains complete information with illustrations on Truscon reinforcing steel, steel windows, metal lath, standard buildings, concrete inserts, steel joists, pressed steel stamping and chemical products.

CEMENT

Louisville Cement Co., 315 Guthrie St., Louisville, Ky.
Brixment. Booklet. 7½ x 5 in. 16 pp. Illustrated. Brixment, what it is, what it does, how it does it and why.

CONDUIT

National Metal Molding Co., 1113 Fulton Building, Pittsburgh, Pa.
Bulletin of all National Metal Molding Products. In correspondence folder. 9½ x 11½ in.
Sheraduct. Circular. 5 x 8 in. Illustrated.
Flaxsteel. Circular. 5 x 8 in. Illustrated.

CONSTRUCTION, FIREPROOF

Massillon Steel Joist Co., Massillon, Ohio.

Massillon Bar Joists. Brochure. 8½ x 11 in. Illustrated. Full data regarding the steel used for construction of floors in fireproof buildings of various kinds.

National Fire Proofing Co., 250 Federal St., Pittsburgh, Pa.
Standard Fire Proofing Bulletin 171. 8½ x 11 in. 32 pp. Illustrated. A treatise on fireproof floor construction.

National Steel Fabric Co., Union Trust Co., Pittsburgh, Pa.
Booklet Fireproofing Structural Steel. Booklet, 12 pp., 8½ x 11 ins. Illustrated. Deals fully with use of steel for fireproofing concrete, and of steel fabric for beam and column wrapping.

Northwestern Expanded Metal Co., 1234 Old Colony Building, Chicago, Ill.

Northwestern Expanded Metal Products. Booklet. 8½ x 10½ in. 16 pp. Fully illustrated, and describes different products of this company, such as Kno-burn metal lath, 20th Century Corrugated. Plaster-Sava and Longspan lath channels, etc.

DAMPPOOFING

Philip Carey Co., Lockland, Cincinnati, Ohio.

Architects' Specifications for Carey Built-Up Roofing. Booklet. 8 x 10½ in. 24 pp. Illustrated. Complete data to aid in specifying the different types of built-up roofing to suit the kind of roof construction to be covered.

Carey Built-Up Roofing for Modern School Buildings. Booklet. 8 x 10½ in. 32 pp. Illustrated. A study of school buildings of a number of different kinds and the roofing materials adapted for each.

Sonneborn Sons, Inc., L., 116 Fifth Ave., New York.

Specification Sheet. 8½ x 11 in. Descriptions and specifications of compounds for dampproofing interior and exterior surfaces.

Toch Brothers, 110 East 42nd Street, New York City.

Specifications for Dampproofing, Waterproofing, Enameling and Technical Paint. Complete and authoritative directions for use of an important line of materials.

DOORS AND TRIM, METAL

The American Brass Company, Waterbury, Conn.

Illustrated pamphlet describing use and adaptability of Extruded Architectural Bronze Shapes for metal window frames, doors, grilles, counter screens, etc.

The Compound & Pyrono Door Company, St. Joseph, Mich.

Pyrono Handbook for Architects and Contractors. 8½ x 11 in. 16 pp. Contains full information regarding Pyrono Fireproof Veneered Doors and Trim, with complete details and specifications.

Pyrono details in sheet form for tracing.

Dahlstrom Metallic Door Company, 425 Buffalo St., Jamestown, N. Y.

Architectural Catalog. 10 x 14 in. 46 pp. 11 sections. Illustrated. Catalog showing the regular styles and types of hollow metal doors and interior trim. Various types of frames and other architectural shapes also illustrated.

Buildings as They Should Be. Booklet 7½ x 10½ in. A lavishly illustrated publication giving data and views of buildings of different kinds equipped with Dahlstrom doors and trim.

Richards-Wilcox Mfg. Co., Aurora, Ill.

Fire Doors and Hardware. Booklet. 8½ x 11 in. 64 pp. Illustrated. Describes entire line of tin-clad and corrugated fire doors, complete with automatic closers, track hangers and all the latest equipment—all approved and labeled by Underwriters' Laboratories.

DUMBWAITERS

Sedgwick Machine Works, 151 West 15th St., New York.

Catalog and Service Sheets. Standard specifications, plans and prices for various types, etc. 4¼ x 8¼ in. 60 pp. Illustrated.

ELECTRICAL EQUIPMENT

Frank Adam Electric Company, St. Louis, Missouri.

Catalog No. 32—1924 Panelboards—Steel Cabinets. 48 pp. 7¼ x 10½ in. Illustrates and describes Safety Type Sectionally Constructed Panelboards, together with complete catalog listings.

Frink, Inc., I. P., 24th St. and 10th Ave., New York City
Catalog 415. 8½ x 11 in. 46 pp. Photographs and scaled cross-sections. Specialized bank lighting, screen and partition reflectors, double and single desk reflectors and Polaralite Signs.

The Edwin F. Guth Co., 2615 Washington Ave., St. Louis, Mo.
Brascolite Catalog No. 10. 10½ x 8 in. 28 pp. Illustrated. Catalog listing Brascolite fixtures in wide variety of plain and decorative types. Contains information of value in planning a lighting installation.

Bank and Office Building Catalog. 10½ x 8 in. 16 pp. Illustrated. Catalog listing a selected line of fixture equipment for application to all outlets in bank or office buildings or similar buildings.

Architectural Bulletins, Series of 5. 10½ x 8 in. 28-64-44-28-44 pp. Illustrated. A series of five bulletins, each treating upon the application of lighting to one particular class of service. Hospitals; Banks and Office Buildings; Schools, Colleges and Y. M. C. A. Buildings; Church and Fraternal Buildings; Commercial Service.

Special Hospital Catalog. 10½ x 8 in. 9 pp. Illustrated. Illustrates a special selection of fixture equipment for hospital use including types suitable for all outlets.

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 89

ELECTRICAL EQUIPMENT—Continued

- Hart & Hegeman Mfg. Co., The**, 342 Capitol Ave., Hartford, Conn.
The Line of Least Resistance. Catalog R. 10½ x 7½ in. 152 pp. Illustrated. Complete display of switches, sockets, accessories and wiring devices with brief description.
A new H & H Switch. Leaflet. 3½ x 6 in. 4 pp. Illustrated. Illustrates a new H & H composition base push switch of De Luxe quality.
Tumbler Switches. Booklet. 3½ x 6 in. 6 pp. Illustrated. Shows complete line of H & H Tumbler Switches.
Architects' Handbook of H & H Wiring Devices. Booklet 8¼ x 11 in. 16 pp. "Written by an Architect for Architects."
Holtzer-Cabot Electric Company, Amory Street, Boston 19, Mass.
Signaling Systems for Hospitals. Brochure. 8½ x 11 in. 42 pp. Illustrated. Contains complete data covering Nurse's Call, Doctor's Call, "In" and "Out" Fire Alarm, Watchman's Clock and Telephone Systems.
Holtzer-Cabot Electric Co., Boston and Chicago.
Bank signal and alarm systems. Brochure. 48 pp. 8½ x 11 in. Illustrated. An invaluable work on protective and other appliances for banks.
Kohler Co., Kohler, Wis.
Principle and Proof. Booklet. 48 pp. Illustrated. Describes a standard voltage automatic electric power and light plant for isolated homes, for emergency auxiliary or permanent lighting in stores, theaters, churches and schools.
Pick & Company, Albert, 208 West Randolph St., Chicago, Ill.
School Cafeterias. Booklet. 9 x 6 in. Illustrated. The design and equipment of school cafeterias with photographs of installation and plans for standardized outfits.
Kitchen Equipment. Booklet. 9 x 6 in. Illustrated. Photographs and descriptions of Hotel, Club and Hospital kitchens with treatise on plans and equipment of efficient kitchens.
Electric Kitchen Equipment. Booklet. 8½ x 11½ in. Illustrated. Photographs and descriptions of PIX "Master-Made" ranges, ovens, etc., for Hotels and Restaurants.
Simplex Wire & Cable Co., 201 Devonshire St., Boston, Mass.
Simplex Manual Catalog and Reference Book. 6¼ x 4¼ in. 92 pp. Contains in addition to information regarding Simplex products, tables and data for the ready reference of architects, electrical engineers and contractors.
Specification No. 2053. For Simcore Wires and Cables. Various sizes of Conductor-Rubber Insulation.
Western Electric Co., 195 Broadway, New York, N. Y.
Western Electric Inter-Phones for Apartment Houses. Booklet. 5¼ x 6¼ in. 16 pp. Illustrated. Illustrates and describes use of Inter-Phones in Apartment Houses.
Installing and Maintaining Western Electric Inter-Phones. In addition to giving general information on layout of system, details are supplied on individual Inter-Phone Systems, listing battery and wiring requirements.

ELEVATORS

- Otis Elevator Company**, 260 Eleventh Ave., New York, N. Y.
Otis Push Button Controlled Elevators. Descriptive leaflets. 8½ x 11 in. Illustrated. Full details of machines, motors and controllers for these types.
Otis Geared and Gearless Traction Elevators of All Types. Descriptive leaflets. 8½ x 11 in. Illustrated. Full details of machines, motors and controllers for these types.
Escalators. Booklet. 8½ x 11 in. 22 pp. Illustrated. Describes use of escalators in subways, department stores, theaters and industrial buildings. Also includes elevators and dock elevators.
Richards-Wilcox Mfg. Co., Aurora, Ill.
Elevators. Booklet. 8½ x 11 in. 24 pp. Illustrated. Describes complete line of "Ideal" elevator door hardware and checking devices, also automatic safety devices.
Sedgwick Machine Works, 151 West 15th St., New York, N. Y.
Catalog and descriptive pamphlets, 4¼ x 8¼ in. 70 pp. Illustrated. Descriptive pamphlets on hand power freight elevators, sidewalk elevators, automobile elevators, etc.

ENAMELING

- Toch Brothers**, 110 East 42nd Street, New York City.
Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.

FIRE DOORS—See Doors, Windows and Trim, Metal

FIREPROOFING—See also Construction, Fireproof

- The General Fireproofing Company**, Youngstown, Ohio.
Fireproofing Handbook, 64 pp. 8½ x 11 in. Illustrated. Gives methods of construction, specifications, data on Herringbone metal lath, steel tile, Trussit solid partitions, steel lumber, self-centering formless concrete construction.
National Steel Fabric Co., Union Trust Co., Pittsburgh, Pa.
Booklet Fireproofing Structural Steel. Booklet. 12 pp. 8½ x 11 in. Illustrated. Deals fully with use of steel for fireproofing concrete, and of steel fabric for beam and column wrapping.

FLOOR HARDENERS (CHEMICAL)

- Sonneborn Sons, Inc., L.**, 116 Fifth Ave., New York, N. Y.
Lapidolith, the liquid chemical hardener. Complete sets of specifications for every building type in which concrete floors are used, with descriptions and results of tests.

FLOORING

- Armstrong Cork & Insulation Co.**, 132 24th St., Pittsburgh, Pa.
Linotile Floors for Public and Semi-Public Buildings, 7½ x 10½ in. 36 pp.
Linotile Floors for Residences. 7½ x 10½ in. 32 pp.
Armstrong's Cork Tile. Revised Edition. Booklet. 24 pp. 5 x 7 in. Illustrated in color. Contains complete specifications.
Armstrong Cork & Insulation Co., Pittsburgh, Pa.
Armstrong's Cork Tile Floors. Booklet, 30 pp. 7¼ x 10½ in. An illustrated work on cork flooring.
Armstrong Cork Co. (Linoleum Division), Lancaster, Pa.
Armstrong's Linoleum Floors. Catalog. 8½ x 11 in. 36 pp. Color plates. A technical treatise on linoleum, including table of gauges and weights and specifications for installing linoleum floors.
Decorative Linoleum Floors. Portfolio of Color Plates. 11¼ x 15 in. 16 pp. Color plates.

FLOORING—Continued

- Armstrong's Linoleum Pattern Book**, 1925. Catalog. 3½ x 6 in. 200 pp. Color Plates. Reproduction in color of all patterns of linoleum and cork carpet in the Armstrong line.
Quality Sample Books. Two books, 3½ x 5¼ in. Showing all gauges and thicknesses in the Armstrong line of linoleums.
Detailed Directions for Laying and Caring for Linoleum. Handbook, 5 x 7 in. 48 pp. Instructions for linoleum layers and others interested in learning most satisfactory methods of laying and taking care of linoleum.
Business Floors. Booklet. 6 x 9 in. 48 pp. Illustrated in color. Explains use of linoleum for offices, stores, etc., with reproductions in color of suitable patterns, also specifications and instructions for laying.
Bonded Floors Company, Inc. 1421 Chestnut st., Philadelphia, Pa.
The "Distinctive Floors" Series. Three pamphlets 7¼ x 10¼ in. Illustrated in full color, each describing and picturing a resilient floor material, as follows:—
Battleship Linoleum. Explains the advantages and proper use of this durable, economical material.
Treadlite Tile. Shows a variety of colors and patterns of this adaptable cork composition flooring.
Natural Cork Tile. Description and color plates of this super-quiet, resilient floor.
Linoleum Specifications. Folder, 8¼ x 11 in. 8 pp. Standard specifications for installation of battleship linoleum, with detailed description and explanation. Also includes copy of Federal Government Specification No. 209.
Practical Working Specifications for installing battleship linoleum treadlite tile, and cork tile.
Carter Bloxonend Flooring Co., Keith & Perry Bldg., Kansas City, Mo.
Bloxonend Flooring. Booklet 3¼ x 6¼ in. 20 pp. Illustrated. Describes uses and adaptability of Bloxonend Flooring to concrete, wood or steel construction, and advantages over loose wood blocks.
File Folder. 9¾ x 8½ in. For use in connection with A. I. A. system of filing. Contains detailed information on Bloxonend Flooring in condensed, loose-leaf form for specification writer and drafting room. Literature embodied in folder includes standard Specification Sheet covering the use of Bloxonend in general industrial service and Supplementary Specification Sheet No. 1, which gives detailed description and explanation of an approved method for installing Bloxonend in gymnasiums, armories, drill rooms and similar locations where maximum resiliency is required.
Duraflex Company, Inc., 11 Pleasant Street, Baltimore, Md.
Why They Used It in One of Boston's Finest Buildings. Typical of Character of One of the 13 Original States. Illustrated, 4-page brochures, 5¼ x 8¼ in., giving data on "Duraflex" floors.
Permanent, Easy Tread Flooring. Folder. 4 pp. 8½ x 11 in. on floor covering material.
Specifications for Sub-Floors for "Duraflex." Folder. 11 pp. 8½ x 11 in. on base for laying "Duraflex."
Test of Floorings. Folder. 2 pp. Report of Flooring Committee of American Hospital Association.
Muller Co., Franklyn R., Waukegan, Ill.
Asbestone Composition Flooring. Circular. 8½ x 11 in. Descriptions and Specifications.
Norton Company, Worcester, Mass.
Filing Folder. 8½ x 11¼ in. 27 pp. Illustrated with drawings. Specification data for architects.
Ritter Lumber Co., W. M., Columbus, Ohio.
Ritter Oak Flooring, brochure 5 x 7 in. 31 pp. Illustrated. Excellent data on floors of different kinds and of various woods. Beauty Begins in the Forest.
Large illustrated folder on modern flooring.
Rodd Company, The, Century Bldg., Pittsburgh, Pa.
Redwood Block Floor. Booklet. 4 x 9 in. Illustrated. Contains technical information on Rodd Floors of California Redwood Blocks. Also specifications.
Stedman Products Company, South Braintree, Mass.
Stedman Reinforced Rubber Flooring. Booklet, 8 x 10 in., bound in "loose leaf" fashion. Discusses rubber flooring for buildings of various kinds.
U. S. Gypsum Co., Chicago.
Pyrobar Floor Tile. Folder. 8½ x 11 in. Illustrated. Data on building floors of hollow tile, and tables on floor loading.
U. S. Rubber Co., 1790 Broadway, New York
Period Adaptations for Modern Floors. Brochure. 8 x 11 in. 60 pp. Richly illustrated. A valuable work on the use of rubber tile for flooring in interiors of different historic styles.

FOLDING PARTITIONS

- Wilson Corporation, J. G.**, 11 East 36th Street, New York, N. Y.
Sectionfold and Rolling Partitions and Hygienic School Wardrobes. Catalog No. 37. Booklet 8½ x 11 in. 40 pp. Illustrated. Describes the uses of rolling and sectional partitions, particularly in schools and churches. Also the installation of Wilson school wardrobes.

FURNACES—See Heating Equipment.

FURNITURE

- American Seating Co.**, 14 E. Jackson Blvd., Chicago, Ill.
Ars Ecclesiastica Booklet. 6 x 9 in. 48 pp. Illustrations of church fittings in carved wood.
Theater Chairs. Booklet. 6 x 9 in. 48 pp. Illustrations of theater chairs.
Kensington Mfg. Company, 41 West 45th St., New York, N. Y.
Photographs and full description of hand-made furniture in all the period styles, furnished in response to a specific inquiry. Illustrated booklet indicative of the scope, character and decorative quality of Kensington furniture mailed on request.
White Door Bed Company, The, 130 North Wells Street, Chicago, Ill.
Booklet. 8½ x 11 in. 20 pp. Illustrated. Describes and illustrates the use of "White" Door Bed and other space-saving devices.

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Madison Avenue and 41st Street,
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Kenosha, Wis.

ANACONDA BRASS PIPE

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SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 90

GARAGE EQUIPMENT

Ramp Buildings Corporation, 21 East 40th St., New York, N. Y.
"Building Garages for Profitable Operation." Booklet. $8\frac{1}{2}$ x 11 in. 16 pp. Illustrated. Describes the d'Humy Motoramp System of Inter-floor Travel for multi-floor garages and shows the increased profits to be derived from the use of this system. Series of Informal Data Sheets on Garage Design sent on request.

GARDEN ACCESSORIES

Davey Tree Expert Company, The, 907 Elm St., Kent, Ohio.
When Your Trees Need The Tree Surgeon. Booklet. 16 pp. 8 x $9\frac{1}{4}$ in. Illustrated. Lists and explains a number of serious tree troubles of common occurrence; contrasts the scientific methods used by properly trained and conscientious men to remedy these troubles with the work of unscrupulous or untrained men.

GLASS CONSTRUCTION

Mississippi Wire Glass, 220 Fifth Avenue, New York.
Mississippi Wire Glass. Catalog. $3\frac{1}{4}$ x $8\frac{1}{4}$ in. 32 pp. Illustrated. Covers the complete line.

GRANITE—See Stone, Building

HARDWARE

Cutler Mail Chute Company, Rochester, N. Y.
Cutler Mail Chute Model F. Booklet. 4 x $9\frac{1}{4}$ in. 8 pp. Illustrated.

McKinney Mfg. Co., Pittsburgh, Pa.
McKinney Complete Garage Hardware Sets. Catalog. $6\frac{1}{4}$ x 10 in. 20 pp. Illustrated. Describes full line of complete garage hardware sets for all kinds of entrances, with views of typical entrances and sketches.

McKinney Hinges and Butts. General Catalog. $6\frac{1}{4}$ x 10 in. Illustrates and describes complete line of McKinney wrought builders' hardware products, including hinges, butts, door hangers and track, latches, garage hardware and specialties.

Richards-Wilcox Mfg. Co., Aurora, Ill.
Distinctive Garage Door Hardware. Booklet. $8\frac{1}{2}$ x 11 in. 65 pp. Illustrated. Complete information accompanied by data and illustrations on different kinds of garage door hardware.

Sargent & Company, New Haven, Conn.
Sargent Locks and Hardware. Architects' Edition, 9 x 12 in. 762 pp. Illustrated. The latest complete catalog of Locks and Hardware.

Details to Which Standard Hardware Can Be Applied. Booklet. 6 pp. 9 x 12 in. Illustrated. Treats with diagrams, portions of doors and windows to which hardware can be applied.

Vonnegut Hardware Co., Indianapolis, Ind.
Von Duprin Self-Releasing Fire Exit Devices. Catalog 12F. 8 x 11 in. 41 pp. Illustrated.

Saving Lives. Booklet. $3\frac{1}{4}$ x 6 in. 16 pp. Illustrated. A brief outline why Self-Releasing Fire Exit Devices should be used.

HEATING EQUIPMENT

American Radiator Company, The, 104 West 42nd St., N. Y. C.
Ideal Type "A" Heat Machine. Catalog $7\frac{3}{4}$ x $10\frac{1}{4}$ in. 32 pp. Illustrated in 4 colors. A brochure of high-efficiency heating apparatus for residences and commercial buildings.

Ideal Water Tube Boilers. Catalog $7\frac{3}{4}$ x $10\frac{1}{4}$ in. 32 pp. Illustrated in 4 colors. Data on a complete line of Heating Boilers of the Water Tube type.

Ideal Smokeless Boilers. Catalog $7\frac{3}{4}$ x $10\frac{1}{4}$ in. 32 pp. Illustrated in 4 colors. Fully explains a boiler free from the objection of causing smoke.

Ideal Boilers for Oil Burning. Catalog $5\frac{1}{2}$ x $8\frac{1}{2}$ in. 36 pp. Illustrated in 4 colors. Describing a line of Heating Boilers especially adapted to use with Oil Burners.

Corto—The Radiator Classic. Brochure $5\frac{1}{2}$ x $8\frac{1}{2}$ in. 16 pp. Illustrated. A brochure on a space-saving radiator of beauty and high efficiency.

Ideal Arcola Radiator Warmth. Brochure $6\frac{1}{4}$ x $9\frac{1}{4}$ in. Illustrated. Describes a central all-on-one-floor heating plant with radiators for small residences, stores, and offices.

Bryant Heater & Mfg. Co., The, 962 East 72nd St., Cleveland, O.
Hand Book on Water Heating by Gas. $8\frac{1}{2}$ x 11 in. 16 pp. Illustrated. Bryant Gas Boilers. Bulletin 309, for AIA File No. 29 D2. Contains valuable information on hot water, steam and vapor heating; data to determine quickly the size of heating plant for any building; also dimensions, weights, fittings furnished and other data of interest. Other descriptive literature available. Comprehensive handbook in preparation.

Hand Book on House Heating by Gas. $8\frac{1}{2}$ x 11 in. 8 pp. Illustrated. Bryant Automatic Hot Water Storage Systems. Bulletin 308, for AIA File No. 30 C1. Contains complete information on water heating systems, weights, dimensions, etc. Other descriptive material available. Comprehensive handbook in preparation.

James B. Clow & Sons, 534 S. Franklin St., Chicago, Ill.
Gasteam. Catalog. 6 x 9 in. 16 pp. Illustrated. New radiator using gas for fuel.

C. A. Dunham Company, 230 East Ohio Street, Chicago, Ill.
Dunham Radiator Trap. Bulletin 101. 8 x 11 in. 12 pp. Illustrated. Explains working of this detail of heating apparatus.

Dunham Packless Radiator Valves. Bulletin 104. 8 x 11 in. 8 pp. Illustrated. A valuable brochure on valves.

Dunham Return Heating System. Bulletin 109. 8 x 11 in. Illustrated. Covers the use of heating apparatus of this kind.

Dunham Vacuum Heating System. Bulletin 110. 8 x 11 in. 12 pp. Illustrated.

Excelsio Specialty Works, 119 Clinton St., Buffalo, N. Y.
Excelsio Water Heater. Booklet. 12 pp. 3 x 6 in. Illustrated. Describing the new Excelsio method of generating domestic hot water in connection with heating boilers. (Firepot Coil eliminated.)

HEATING EQUIPMENT—Continued

The Fulton Company, Knoxville, Tenn.
Sylphon Temperature Regulators. Bulletin T-103. $8\frac{1}{2}$ x 11 in. 16 pp. Complete data on Sylphon temperature regulators for air and liquids. Catalog 100, complete line Sylphon Heating Specialties.

Damper Regulators. Air and Vent Valves. Catalog No. 100. $3\frac{1}{4}$ x $6\frac{1}{4}$ in. Sylphon Damper Regulators for steam, hot water and vapor systems. Sylphon Air and Vent Valves.

Illinois Engineering Co., Racine Ave., at 21st St., Chicago, Ill.
Vapor Heat Bulletin 21. $8\frac{1}{4}$ x 11 in. 32 pp. Illustrated. Contains new and original data on Vapor Heating. Rules for computing radiation, pipe sizes, radiator tappings. Steam table showing temperature of steam and vapor at various pressures, also description of Illinois Vapor Specialties.

International Heater Company, Utica, N. Y.
New International Economy Smokeless Boiler. Catalog, Form 1751-F. Copy will be sent on request.

Johnson Service Company, 149 Michigan St., Milwaukee, Wis.
Regulation of Temperature and Humidity. Booklet. $11\frac{1}{4}$ x $8\frac{1}{2}$ in. 64 pp. Illustrated. Describes Johnson system of pneumatic, automatic regulation of temperature and humidity, and illustrates thermostats, valves, air compressors, dampers and other parts.

Johnson Electric Thermostats, Valves and Controllers. Booklet. $6\frac{1}{4}$ x $3\frac{1}{2}$ in. 24 pp. Illustrated. Excellent plates showing electric thermostats and controllers.

Kelsey Heating Company, James St., Syracuse, N. Y.
Booklet No. 5, 4 x 9 in. 32 pp. Illustrated. A dealers' booklet showing the Kelsey Warm Air Generator Method of warming and distributing air. Gives dimensions, heating capacities, weights, kind of coal recommended and shows the mechanical and gravity systems of heating homes, churches and schools.

Monroe Pipeless Booklet. $4\frac{1}{2}$ x 8 in. 20 pp. Illustrated.

Monroe Tubular Heater. Booklet. $4\frac{1}{2}$ x 8 in. 20 pp. Illustrated.

General Booklet giving capacities, dimensions, weights, etc. Syracuse Pipeless Booklet. $4\frac{1}{2}$ x 8 in. 12 pp. Illustrated. General Booklet giving sizes and capacities.

Kewanee Boiler Co., Kewanee, Ill.
Kewanee on the Job. Catalog. $8\frac{1}{2}$ x 11 in. 80 pp. Illustrated. Showing installations of Kewanee boilers, water heaters, radiators, etc.

Catalog No. 78, 6 x 9 in. Illustrated. Describes Kewanee Fire-box Boilers with specifications and setting plans.

Catalog No. 79. 6 x 9 in. Illustrated. Describes Kewanee power boilers and smokeless tubular boilers with specifications.

Mueller Co., Decatur, Ill.
Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in measurements for built-in bath equipment.

Nash Engineering Company, South Norwalk, Conn.
No. 37. Devoted to Jennings Hytor Return Line Vacuum Heating Pumps, electrically driven, and supplied in standard sizes up to 300,000 square feet equivalent direct radiation.

No. 16. Dealing with Jennings Hytor Air Line Heating Pumps.

No. 17. Describing Jennings Hytor Condensation Pumps, sizes up to 70,000 square feet equivalent direct radiation.

No. 25. Illustrating Jennings Return Line Vacuum Heating Pumps. Size M, for equivalent direct radiation up to 5,000 square feet.

National Radiator Company, Johnstown, Pa.
Aero Radiators; Beauty and Worth. Catalog 34. Booklet 6 x 9 in., 20 pp., describing and illustrating radiators and accessories.

Richardson & Boynton Company, New York City.
Richardson Round Smokeless Boilers. Booklet. 8 x $10\frac{1}{4}$ in. Illustrating and describing boilers for burning soft coal economically and without smoke or soot.

The Thatcher Company, 39-41 St. Francis St., Newark, N. J.
Boilers—Boiler Catalog 434 x 8, 80 pages illustrated. Explains the advantages and installation of Thatcher Boilers. Includes: Round Boilers, steam and hot-water. Sectional end-feed steam and hot-water. Progress side-feed sectional steam and hot-water. Hot-water supply Heaters, Garage Heaters.

Furnaces—Furnace Catalog 434 x 8, 24 pages, illustrated. Describes the merits of Thatcher Furnaces and their economical fuel consumption. Includes: Celebrated Thatcher Tubular Furnaces. Meteor Pipe and Pipe-less Furnaces. Smokeless Furnaces and School-room Heaters.

Trane Co., The, La Crosse, Wis.
Bulletin 14. 16 pp. $8\frac{1}{2}$ x $10\frac{1}{4}$ in. Cover the complete line of Trane Heating Specialties, including Trane Bellows Traps, and Trane Bellows Packless Valves.

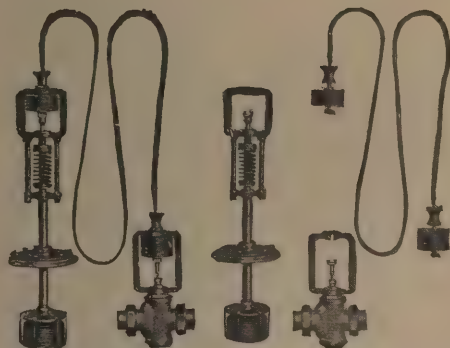
Bulletin 20. 24 pp. $8\frac{1}{2}$ x $10\frac{1}{4}$ in. Explains in detail the operation and construction of Trane Condensation, Vacuum, Booster, Circulating, and similar pumps.

Utica Heater Company, Utica, N. Y.
Imperial Round and Square Boilers and Supplies. Catalog. $3\frac{1}{4}$ x $6\frac{1}{4}$ in. Gives complete data on small heaters.

Special Folders. $8\frac{1}{2}$ x 11 in. "Warmth and Comfort," describing the scientifically correct NEW IDEA pipeless furnaces, "SUPERIOR Warm Air Pipe Furnaces," a standard line of heating equipment for over forty years. "SUPER-SMOKELESS Pipe and Pipeless Furnaces," a new and remarkably efficient warm air heater, burning cheap soft coal without smoke—utilizing the principle of the Bunsen Burner.

Sylphon Leads Again!

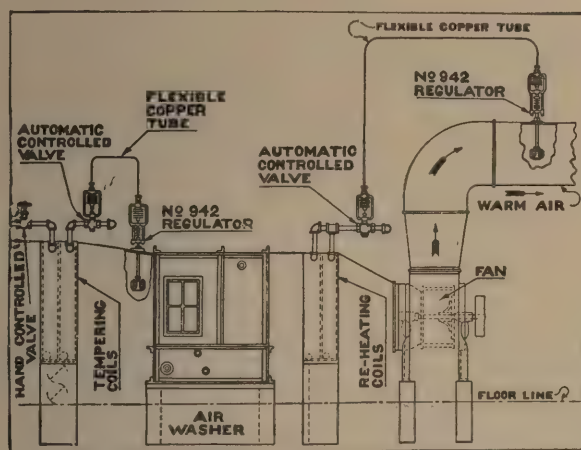
Announcing
New Type Temperature Regulator
to control Indirect Heating Stacks



No. 942 Sylphon Temperature Regulator showing assembled and unassembled views

Architects, engineers and heating contractors will welcome the No. 942 Sylphon Temperature Regulator because its *three-part construction* makes easy what was heretofore a difficult installation.

It is necessary to handle only one part of the instrument at a time. The thermostatic head can be installed separately in the duct, the valve separately in the steam line to heater stacks, and then the two joined by slipping the transmission unit into the T-slot connections. Any part can be removed for repair in accidental damage without disturbing the other parts.



Two No. 942 Sylphon Temperature Regulators installed on indirect heating system.

A Typical Installation

As illustration at left shows, the thermostatic head is installed through the hole cut in top of duct and is fastened to duct by a ring (which is riveted to duct) and a companion flange which is bolted to the ring. The balance of the Regulator, including the adjusting mechanism is outside the duct and accessible at all times. The valve is mounted in the steam line to heating coils. The transmission unit (which may be of any length) is then installed to join the two. This Regulator is set to control at 70° F.

In the same manner the Regulator shown in the center of illustration at left is installed to control the tempering coils and is set at 50° F. For extremely cold weather the hand control valve may be opened to throw in the additional coil.

The Regulator is made in valve sizes from ½" to 4" inclusive, making it possible to control small, medium or large installations.

Write for Catalogue FTR-200 fully describing this new regulator and giving dimensions, prices, etc.



Diagrammatic cut shows extreme sensitiveness and extent of movement of the Sylphon bellows used as thermostatic element in No. 942 Regulator and all Sylphon heating specialties.

THE FULTON COMPANY

Originators and Patentees of the Sylphon Bellows
KNOXVILLE, TENN.

Sales Offices in: New York Chicago Detroit Boston Philadelphia
and all the Principal Cities in U. S.

European representatives: Crosby Valve
& Engineering Co., Ltd., 41-42 Foley Street
London, W. 1, England

Canadian representatives: Darling Bros.,
Ltd., 120 Prince Street
Montreal, Canada

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 92

HEATING EQUIPMENT—Continued

Utica Imperial SUPER-SMOKELESS Boiler. Catalog. $8\frac{1}{2} \times 11$ in. Consists of the following seven bulletins, either loose or bound together: (1) School Heating Bulletin. (2) Public Building Bulletin. (3) Theater Heating Bulletin. (4) Churches and Religious Institutions. (5) Residences, Apartments and Hotels. (6) Offices, Industrial Buildings and Garages. (7) Technical Bulletin describing patented Bunsen Burner design and construction of the SUPER-SMOKELESS BOILER, which burns the cheapest grades of soft coal smokelessly and operates equally well with hard coal, coke or fuel oil.

HEAT REGULATORS—See Heating Equipment

HEATING AND VENTILATING

Thatcher Furnace Co., 39-41 St. Francis St., Newark, N. J.

Thatcher Heating and A Few Installations, 25 pp. 6×9 in. Illustrated. Contains photos of various types of buildings in which Thatcher Heaters are installed together with cuts and description of Thatcher Heaters.

History of Heat. 15 pp. 8×5 in. Illustrated. Tracing the evolution of heat from its earliest stages.

HOISTS—See Ash Hoists

HOLLOW TILE—See Tile, Hollow

HOSPITAL EQUIPMENT

The International Nickel Company, 67 Wall St., New York, N. Y. Hospital Applications of Monel Metal. Booklet. $8\frac{1}{2} \times 11\frac{1}{4}$ in. 16 pp. Illustrated. Gives types of equipment in which Monel Metal is used, reasons for its adoption, with sources of such equipment.

The Kny-Scheerer Corporation of America, 119 Seventh Ave., New York.

Hospital Equipment, 16th Edition. $7\frac{1}{4} \times 10\frac{1}{2}$ in. 232 pp. Illustrated. Complete description of Hospital and Surgical Furniture, Hospital Appliances including Operating Tables, Cabinets, Sterilizers for Water, Dressing and Instruments, also Hydrotherapeutic Apparatus.

Surgical Sundries. Second Edition. Booklet. $7\frac{3}{4} \times 10\frac{1}{2}$ in. 48 pp. Illustrated. A complete line of glassware, enamelware, rubber goods, restraint apparatus, instrument sterilizers, sputum cups, wheel chairs and sick room comforts.

Electro-Medical. 25th Edition. Booklet. $7\frac{1}{4} \times 10\frac{1}{2}$ in. 160 pp. Illustrated. A complete line of Albee Bone Sets, Apparatus for AC and DC, Cystoscopes, Heat Magnets, Vibrators, Compressors, Electric Light Baths, High Frequency Apparatus and X-Ray Apparatus and Accessories.

INCINERATORS

The Kerner Incinerator Company, 1029 Chestnut St., Milwaukee, Wis.

The Kernerator. Booklet. $5\frac{1}{2} \times 9\frac{1}{4}$ in. 40 pp. Illustrated. Describes principle and design of the Kernerator, guarantee and service, also gives illustrations of buildings where it has been installed, and testimonials.

Sanitary Elimination of Household Waste. Booklet. 4×9 in. 16 pp. Illustrated. Shows process, installations and advantages of the Kernerator.

Sanitary Disposal of Waste in Hospitals. Booklet. 4×9 in. 12 pp. Illustrated. Shows how this necessary part of hospital service can be taken care of by the Kernerator.

INSULATION

Armstrong Cork & Insulation Co., Pittsburgh, Pa.

Corkboard Insulation. Brochure. $6\frac{1}{4} \times 9\frac{1}{4}$ in. Illustrated. Fully discusses properties of corkboard and its uses in insulation of cold storage rooms, refrigerators, residences, apartment houses.

Armstrong Cork & Insulation Co., Pittsburgh, Pa.

Nonpareil Cork Covering. Booklet 48 pp. $7\frac{1}{4} \times 10\frac{1}{2}$ in. Illustrated. Complete treatment of cold pipe installation. Filing Folder for Pipe Covering Data. Made in accordance with A. I. A. rules.

Insulation of Dwellings with Armstrong's Corkboard, $7 \times 10\frac{1}{2}$ in. 40 pages. Illustrated.

Bishopric Manufacturing Co., 103 Este Ave., Cincinnati, Ohio.

Specifications and Working Details. Booklet. $7\frac{3}{4} \times 10\frac{1}{2}$ in. Illustrated. Contains plainly written instructions for the use of stucco, stucco base, plaster base and insulation base.

National Steel Fabric Co., Union Trust Building, Pittsburgh, Pa.

Building a Permanent Home. Brochure 4×9 ins. 20 pp. Discusses the use of steel materials in domestic buildings in a way likely to interest architects and builders.

Sales Manual. Loose leaf, $8\frac{1}{2} \times 11$ ins. Complete data and specifications regarding the use of this company's products.

Philip Carey Co., The, Cincinnati, Ohio.

Carey Asbestos and Magnesia Products. Catalog. 6×9 in. 72 pp. Illustrated.

Celotex Company, The, 645 N. Michigan Ave., Chicago, Ill.

The Hidden Comfort of Costly Homes. Booklet $8\frac{1}{2} \times 11$ in. Celotex Specifications. Booklet $8\frac{1}{2} \times 11$ in.

Johns-Manville, Inc., Madison Ave. and 41st St., New York, N. Y.

Johns-Manville Service to Power Users. Catalog. $8\frac{1}{2} \times 11$ in. 150 pp. Illustrated. Contains valuable data on all forms of insulation, packages, steam traps, high temperature cements, brake locks and linings, also general technical data.

United States Mineral Wool Co., 280 Madison Ave., New York.

The Uses of Mineral Wool in Architecture. Booklet. $5\frac{1}{4} \times 6\frac{1}{4}$ in. 24 pp. Illustrated. Describes properties of mineral wool as insulation against heat, frost, sound. Specifications and section drawing for use as a fireproofing. Rules for estimate and cost.

KITCHEN EQUIPMENT

Dougherty & Sons, Inc., W. F., 1009 Arch Street, Philadelphia, Pa.

"Superior" Kitchen and Cafeteria Equipment. Various catalogues, comprising a total of some 400 pages, profusely illustrated with actual plans, installations, appliances, etc., including a brief and interesting treatise on kitchen and cafeteria practice, of interest to architects in general.

KITCHEN EQUIPMENT—Continued

Standard Gas Equipment Corporation, 18-20 East 41st Street, New York, N. Y.

VULCAN Gas Ranges and Appliances. Booklet. 5×8 in. 50 pp. Illustrated. Describes complete line, including VULCAN SMOOTH TOP Compact Cabinet Gas Ranges for kitchens in the home.

VULCAN Gas Equipment for Hotels, Hospitals, Restaurants, etc. Booklet. 5×8 in. 45 pp. Illustrated. Equipment for heavy-duty cooking requirements, with information of value to architects in planning kitchens.

The International Nickel Company, 67 Wall St., New York, N. Y.

Hotels, Restaurants and Cafeteria Applications of Monel Metal. Booklet. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. Gives types of equipment in which Monel Metal is used, with service data and sources of equipment.

Mueller Co., Decatur, Ill.

Catalog G, 8×11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in measurements for built-in bath equipment.

Pick & Company, Albert, 208 W. Randolph St., Chicago, Ill.

School Cafeteria. Portfolio. 17×11 in. 44 pp. Illustrated. An exhaustive study of the problems of school feeding, with copious illustrations and blue prints. Very valuable to the architect.

School Cafeterias. Booklet. 9×6 in. Illustrated. The design and equipment of school cafeterias with photographs of installation and plans for standardized outfits.

Kitchen Equipment. Booklet. 9×6 in. Illustrated. Photographs and descriptions of Hotel, Club and Hospital kitchens with treatise on plans and equipment of efficient kitchens.

Electric Kitchen Equipment. Booklet. $8\frac{1}{2} \times 11\frac{1}{2}$ in. Illustrated. Photographs and descriptions of PIX "Master-Made" ranges, ovens, etc., for Hotels and Restaurants.

Hotel, Apartment Building, Club and Institution Installations. Portfolio. 17×11 in. 100 pp. Shows, mostly by plates, how the Albert Pick Company equips hotels completely from top to bottom.

Equipment for Cafeterias, Lunch Rooms, Restaurants, and Dining Rooms. Portfolio. 17×11 in. 86 pp. Illustrated. The last word in Cafeteria equipment to meet all requirements.

The Thatcher Company, 39-41 St. Francis St., Newark, N. J.

Ranges—Range Catalog $4\frac{1}{2} \times 8$, 24 pages illustrated. A brochure of all Thatcher Ranges. Includes:

Twin-fire combination Coal and Gas Ranges.

Single and Double-oven Coal Ranges.

Thatcher Enameled Gas Ranges.

Mascot Ship Ranges and Laundry Heaters.

LABORATORY EQUIPMENT

Alberene Stone Co., 153 West 23rd Street, New York City

Booklet $8\frac{1}{4} \times 11\frac{1}{4}$ in., 26 pp. Stone for laboratory equipment, shower partitions, stair treads, etc.

Kewaunee Manufacturing Company, 141 Lincoln St., Kewaunee, Wis.

Kewaunee Book of Laboratory Furniture. Catalog. 7×10 in. 408 pp. Illustrated. Science and Vocational Laboratory Furniture for schools, colleges, technical institutes, hospitals, etc., including floor plans, illustrations of buildings and equipped laboratories, illustrations of equipment engineering data for mechanical ventilation and illustrations of special plumbing fixtures for laboratory use. A supplement is also issued for this work.

LANTERNS

Todhunter, Arthur, 414 Madison Ave., New York.

Hand Wrought Lanterns. Booklet. $5\frac{1}{4} \times 6\frac{1}{4}$ in. 20 pp. Illustrated in Black and White. With price list. Lanterns appropriate for exterior and interior use, designed from old models and meeting the requirements of modern lighting.

LATH, METAL AND REINFORCING

The General Fireproofing Company, Youngstown, Ohio.

Herringbone Metal Lath Handbook. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. Standard specifications for Cement Stucco on Herringbone.

Rigid Metal Lath and interior plastering.

Milwaukee Corrugating Co., Milwaukee, Wis.

The Milcor Manual. Booklet $8\frac{1}{2} \times 11$ in. 64 pp. Illustrated. Covers Milcor methods and materials, metal lath, corner beads, steel domes, channels, etc.

National Steel Fabric Co., Union Trust Building, Pittsburgh, Pa.

Building a Permanent Home. Brochure 4×9 ins. 20 pp. Discusses the use of steel materials in domestic buildings in a way likely to interest architects and builders.

Sales Manual. Loose leaf, $8\frac{1}{2} \times 11$ ins. Complete data and specifications regarding the use of this company's products.

Northwestern Expanded Metal Co., 1234 Old Colony Building, Chicago, Ill.

Northwestern Expanded Metal Products. Booklet. $8\frac{1}{2} \times 10\frac{1}{4}$ in. 16 pp. Fully illustrated, and describes different products of this company, such as Kno-burn metal lath, 20th Century Corrugated, Plaster-Sava and Longspan lath channels, etc.

LAUNDRY CHUTES

The Pfaudler Company, 217 Cutler Building, Rochester, N. Y.

Pfaudler Glass-Lined Steel Laundry Chutes. Booklet. $5\frac{1}{4} \times 7\frac{3}{4}$ in. 16 pp. Illustrated. A beautifully printed brochure describing in detail with architects' specifications THE PFAUDLER GLASS LINED STEEL LAUNDRY CHUTES. Contains views of installations and list of representative examples.



A good job of cold pipe insulation at the Atlanta Biltmore Hotel, Atlanta, Ga. Nonpareil Cork Covering on the straight pipe runs, Nonpareil Cork Fitting Covers on the fittings and Nonpareil Cork Lagging on the brine tank.

Insulated and Insulated Right

LOOK at this job. A complicated layout of cold piping indeed, yet every inch of the pipes and tanks and every fitting is insulated and insulated right—Nonpareil Cork Covering on the straight pipe runs, Nonpareil Cork Fitting Covers on the fittings, Nonpareil Cork Lagging on the tanks, and good workmanship throughout.

This is an excellent example of the right way to insulate refrigerated lines and tanks. First, because the insulation is the most efficient practical low temperature insulation known, and secondly, because it is properly applied.

Made of pure cork, in half sections for straight pipe runs and in molded covers for fittings, Nonpareil Cork Covering is proof against moisture and frost, the enemies of cold pipe insulation. And in addition it is protected outside and inside with an impervious coating of mineral rubber. Properly applied it stays dry for the life of the pipe.

Nonpareil Cork Covering on cold lines, coolers and tanks is definite assurance of permanent trouble-free insulation.

No piping is too involved or too complicated to be efficiently and permanently insulated with Nonpareil Cork Covering. There is a grade for every service condition from refrigerated drinking water systems to lines carrying below zero refrigerants and a size for every pipe and every fitting—screwed or flanged—in general use. For the larger pipes and fittings and for brine coolers, tanks, pumps, traps and other irregular surfaces, Nonpareil Cork Covering is supplied in beveled lags and discs.

ARMSTRONG CORK & INSULATION COMPANY
(Division of Armstrong Cork Company)

206 Twenty-fourth Street

Pittsburgh, Pa.

Branches in the Principal Cities

Nonpareil Cork Covering

for Cold Lines, Coolers and Tanks

Have you received the specification folder, "Nonpareil Cork Covering," A.I.A. Classification 37b6? If not, write for a copy. There is no charge and you will find it useful.

Authoritative information, estimates, and any assistance you may require in laying out insulated cold lines will be given gladly. Capable engineers in the Company's district offices are at your call.

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 94

LIGHTING EQUIPMENT

- Curtis Lighting, Inc.,** Chicago, Ill.
Catalog 393. 8 x 10 in. 34 pp. Illustrated. Describes and illustrates X-Ray reflectors for show cases and windows, and lighting fixtures for interior illumination of stores.
- Curtis Lighting, Inc.,** 1119 West Jackson Boulevard, Chicago, Ill.
Lighting Specifications.—A. I. A. File 31 F. Looseleaf. 8½ x 11 in. Architectural detail plates on church, restaurant and home lighting. Complete details, illustrations and helpful ideas on direct and indirect illumination. Sent free to any registered architect who requests them on his own letterhead.
- Pittsburgh Reflector Co.,** Pittsburgh, Pa.
Cove Lighting. Booklet. 8½ x 11 in. 24 pp. Gives complete data on lighting of this type.
- Show Window Lighting. Booklet. 8½ x 11 in. 28 pp. A most useful work on lighting these important areas.

LOCKERS

- Hart & Hutchinson Company, The,** New Britain, Conn.
Steel Lockers, Cabinets and Partitions. Catalog, 8 x 11 in. 16 pp. of complete line of steel partitions, lockers and cabinets for different household and business purposes.

MAIL CHUTES

- Cutler Mail Chute Company,** Rochester, N. Y.
Cutler Mail Chute Model F. Booklet. 4 x 9¼ in. 8 pp. Illustrated.

MANTELS

- Arthur Todhunter,** 414 Madison Avenue, New York, N. Y.
Georgian Mantels. New Booklet. 24 pp. 5¼ x 6¼ in. A fully illustrated brochure on eighteenth century mantels. Folders give prices of mantels and illustrations and prices of fireplace equipment.

MARBLE

- The Georgia Marble Company,** Tate, Ga. New York Office, 1328 Broadway.
Why Georgia Marble is Better. Booklet. 3¼ x 6 in. Gives analysis, physical qualities, comparison of absorption with granite, opinions of authorities, etc.
- Convincing Proof. Booklet. 3¼ x 6 in. 8 pp. Classified list of buildings and memorials in which Georgia Marble has been used, with names of Architects and Sculptors.

METAL LATH—See Lath, Metal and Reinforcing

METALS

- American Sheet & Tin Plate Co.,** Frick Building, Pittsburgh, Pa.
Reference Book. Pocket Ed. 2½ x 4½ in. 168 pp. Illustrated. Covers the complete line of Sheet and Tin Mill Products.
- Apollo and Apollo-Keystone Galvanized Sheets. Catalog. 8½ x 11 in. 20 pp. Illustrated.
- Research on the Corrosion Resistance of Copper Steel. Booklet. 8½ x 11 in. 24 pp. Illustrated. Technical information on results of atmospheric corrosion tests of various sheets under actual weather conditions.
- Chase Metal Works,** Waterbury, Conn.
How to Order Brass. Booklet. 8½ x 5½ in. Illustrated. Tells just how to order brass—about alloys, tempers, tolerances most suitable for various uses. Warns against the usual mistakes and troubles in ordering. Contains complete tables of alloys, tempers, tolerances, uses, etc.
- Chase Diamond Booklet. 11½ x 9 in. 8-16 pp. Illustrated. Periodical house organ issued once a month or so. Contains articles, pictures, news items of interest to customers, employees and brass industry in general. Ask to be put on the mailing list.
- The International Nickel Company,** 67 Wall St., New York, N. Y.
The Choice of a Metal. Booklet. 6¼ x 3¼ in. 16 pp. Illustrated. Monel Metal—its qualities, use and commercial forms, briefly described.

METAL TRIM—See Doors and Trim, Metal

MILL WORK—See also Wood

- Curtis Companies Service Bureau,** Clinton, Iowa.
Architectural Interior and Exterior Woodwork. Standardized. Book. 9 x 11½ in. 240 pp. Illustrated. This is an Architects' Edition of the complete catalog of Curtis Woodwork, as designed by Trowbridge & Ackerman. Contains many color plates.
- Better Built Homes, Vols. XV-XVIII incl. Booklet. 9 x 12 in. 40 pp. Illustrated. Designs for houses of five to eight rooms, respectively, in several authentic types, by Trowbridge & Ackerman, architects for the Curtis Companies.
- Curtis Details. Booklet. 19½ x 23½ in. 20 pp. Illustrated. Complete details of all items of Curtis woodwork, for the use of architects.
- Roddie Lumber & Veneer Company,** Marshfield, Wis.
Roddie Doorman. Booklet. 10¼ x 7¼ in. 12 pp. Illustrated. Describes and illustrates the use of Roddie Doors for residences, clubs, hotels, etc.
- Hartmann-Sanders Company,** 2155 Elston Ave., Chicago, Ill.
Column Catalog. 7½ x 10 in. 48 pp. Illustrated. Contains prices on columns 6 to 36 in. diameter, various designs and illustrations of columns and installations.
- The Pergola Catalog. 7½ x 10 in. 64 pp. Illustrated. Contains illustrations of pergola lattices, garden furniture in wood and cement, garden accessories.

MORTAR COLORS

- Clinton Metallic Paint Co.,** Clinton, N. Y.
Clinton Mortar Colors. Folder. 8½ x 11 in. 4 pp. Illustrated in color, gives full information concerning Clinton Mortar Colors with specific instructions for using them.
- Color Card. 6½ x 3¼ in. Illustrates in color the ten shades in which Clinton Mortar Colors are manufactured.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES

- Cabot, Inc., Samuel,** Boston, Mass.
Cabot's Creosote Stains. Booklet. 4 x 8½ in. 16 pp. Illustrated.

PAINTS, STAINS, VARNISHES & WOOD FINISHES—Continued

- The Glidden Company,** Cleveland, Ohio.
More Daylight. 8 x 10¼ in. 20 pp. Portraying by illustrations and text the need and methods of modern mill painting.
- Glidden Specification Book. 8 x 10¼ in. 12 pp. Complete architectural specifications for Glidden Paints and Varnishes, including Ripolin. Directions for the proper finishing of wood, metal, plaster, concrete, brick and other surfaces.
- Martin Varnish Co.,** 2500 Quarry St., Chicago, Ill.
Architectural Specifications. Booklet. 8½ x 11 in. 20 pp. Illustrated. Complete guide for Architects in specifying Martin Varnish Products.
- Your Floors. Booklet. 5 x 7 in. 20 pp. Illustrated. Explains fully how to finish all kinds of floors and woodwork with Martin's Pure Varnish.
- Devoe & Raynolds Co., Inc.,** 101 Fulton Street, New York.
Architects' Paint & Varnish Manual, containing in concrete form architects' educational letters.
- National Lead Company,** 111 Broadway, New York, N. Y.
Handy Book on Painting. Book. 5½ x 3¼ in. 100 pp. Gives directions and formulae for painting various surfaces of wood, plaster, metals, etc., both interior and exterior.
- Red Lead in Paste Form. Booklet. 6¼ x 3½. 16 pp. Illustrated. Directions and formulae for painting metals.
- Came Lead. Booklet. 8¼ x 6 in. 12 pp. Illustrated. Describes various styles of lead comes.
- Cinch Anchoring Specialties. Booklet. 6 x 3½ in. 20 pp. Illustrated. Describes complete line of expansion bolts.
- New Jersey Zinc Company,** 160 Front St., New York, N. Y.
Zinc as a Paint Pigment. Technical Treatise on the subject, with illustrations and reports of tests, 24 pp. 6 x 9 in.
- Mapaz No. 1 Painting Handbook. Pocket size combination handbook and note book containing valuable information on Zinc Oxide and its use in paint. Other data of interest to architects, including lace stencils, color formulae, etc.
- The Ripolin Company,** Cleveland, Ohio.
Ripolin Specifications. Book. 8 x 10¼ in. 12 pp. Complete specifications and general instructions for the application of Ripolin, the original Holland enamel paint. Also directions for proper finishing of wood, metal, plaster, concrete, brick and other surfaces.
- Why Ripolin Has an International Reputation. 8 x 10¼ in. 24 pp. Designed for the architect's files to illustrate the many varied uses of Ripolin Enamel Paint in all parts of the world. Profusely illustrated.
- Ruberoid Co., The** (formerly the Standard Paint Co.), 95 Madison Avenue, New York, N. Y.
Preservative Coating. Booklet. 6 x 9 in. 15 pp. Illustrated. Presents in a concise manner the properties and uses of the Ruberoid Company's various paint preparations.
- Sherwin-Williams Company,** 601 Canal Rd., Cleveland, Ohio.
Painting Concrete and Stucco Surfaces. Bulletin No. 1. 8½ x 11 in. 8 pp. Illustrated. A complete treatise with complete specifications on the subject of Painting of Concrete and Stucco Surfaces. Color chips of paint shown in bulletin.
- Enamel Finish for Interior and Exterior Surfaces. Bulletin No. 2. 8½ x 11 in. 12 pp. Illustrated. Thorough discussion, including complete specifications for securing the most satisfactory enamel finish on interior and exterior walls and trim.
- Painting and Decorating of Interior Walls. Bulletin No. 3. 8½ x 11 in. 20 pp. Illustrated. An excellent reference book on Flat Wall Finish, including texture effects, which are taking the country by storm. Every architect should have one on file.
- Protective Paints for Metal Surfaces. Bulletin No. 4. 8½ x 11 in. 12 pp. Illustrated. A highly technical subject treated in a simple, understandable manner.
- Sonneborn Sons, Inc., L.,** Dept. 4, 116 Fifth Avenue, New York.
Paint Specifications. Booklet. 8½ x 10¼ in. 4 pp.

PANELING—See Millwork

PARTITIONS

- Empire Steel Partition Co.,** College Point, N. Y.
Steel office partitions. Write for further information and Folder No. 4.
- Hauserman Company, E. F.,** Cleveland, Ohio
Hollow Steel Standard Partitions. Various folders, 8½ x 11. Illustrated. Give full data on different types of steel partitions, together with details, elevations and specifications.
- Improved Office Partition Company,** 25 Grand St., Elmhurst, L. I.
Telesco Partition. Catalog. 8½ x 11 in. 14 pp. Illustrated. Shows typical offices laid out with Telesco partitions, cuts of finished partition units in various woods. Gives specifications and cuts of buildings using Telesco.
- Detailed Instructions for erecting Telesco Partitions. Booklet. 24 pp. 8½ x 11 in. Illustrated. Complete instructions, with cuts and drawings, showing how easily Telesco Partition can be erected.
- Richards-Wilcox Mfg. Co.,** Aurora, Ill.
Partitions. Booklet. 7 x 10 in. 32 pp. Illustrated. Describes complete line of track and hangers for all styles of sliding, parallel, accordion and flush door partitions.
- U. S. Gypsum Co.,** Chicago.
Pyrobar Partition and Furring Tile. Booklet. 8½ x 11 in. 24 pp. Illustrated. Describes use and advantages of hollow tile for inner partitions.

PIPE

- American Brass Company,** Waterbury, Conn.
Bulletin B-1. Brass Pipe for Water Service. 8½ x 11 in. 28 pp. Illustrated. Gives schedule of weights and sizes (I.P.S.) of seamless brass and copper pipe, shows typical installations of brass pipe, and gives general discussion of the corrosive effect of water on iron, steel and brass pipe.
- Chase Metal Works,** Waterbury, Conn.
Why Brass Pipe. Booklet. 6¼ x 3¼ in. 6 pp. Small pamphlet showing advantages of brass pipe in concise form, together with table of standard sizes and weights.



Alvernia High School
Plumbers:
M. J. Corboy
Architects:
Brust & Phillips

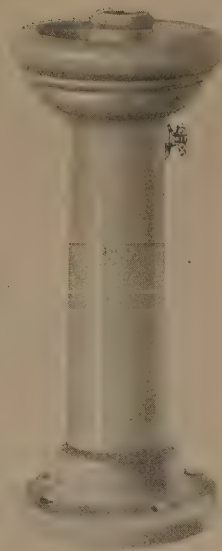


Summit High School
Summit, N. J.
Plumbers:
A. Taase & Co.
Architects:
Guilbert & Betelle



Viroqua High School
Viroqua, Wisconsin
Plumbers:
Smith Hardware Co.
Architect:
E. J. Hancock

*Preferred for Exacting Plumbing
Since 1878*



*A very popular Clow fountain
for school work*



Glassboro Normal School
Glassboro, N. J.
Plumbers:
Heat & Power Co.
Architects:
Guilbert & Betelle
Arnold H. Moses



Bronxville High School and
Grade School
Bronxville, N. Y.
Plumbers:
Moran Engineering Co.
Architects:
Guilbert & Betelle
Harry Leslie Walker



Woodrow Wilson High School
New Rochelle, N. Y.
Plumbers:
George E. Gibson Co.
Architects:
Guilbert & Betelle

Successfully Meeting the Supreme Tests of Time

There is an old saying that "The proof of the pudding is in the eating." This maxim holds especially true in such an important field of sanitation as the modern school.

Handsome white fixtures and shiny brass fittings mean little or nothing until years have rolled away and proven that those fixtures and fittings can and have rendered the service expected of them.

Everyone interested in school plumbing has ample opportunity to inspect Clow installations

that are functioning successfully after ten, fifteen and even more years of service. Taking advantage of these opportunities has led many schools of the modern type illustrated on this page, to insist upon Clow for all plumbing.

The advantages to be gained by such specifications become even more evident when it is considered that the Clow plumbing line is invariably complete in each detail and that each Clow fixture is carefully assembled and thoroughly tested before it is shipped to a job.

JAMES B. CLOW & SONS, 534-546 S. FRANKLIN ST., CHICAGO

Sales Offices in Principal Cities

CLOW

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 96

PIPE—Continued

- Clow & Sons, James B.**, 534 S. Franklin St., Chicago, Ill.
Catalog "A." 4 x 6½ in. 700 pp. Illustrated. Shows a full line of steam, gas and water works supplies.
- Copper & Brass Research Association**, 25 Broadway, New York City
Brass Pipe Plumbing for Your House. Booklet 7 x 10½ in., 16 pp. Useful work on the value of brass piping.
- National Tube Co.**, Frick Building, Pittsburgh, Pa.
"National" Bulletin No. 2. Corrosion of Hot Water Pipe. (8½ x 11 in. 24 pp.) Illustrated. In this bulletin is summed up the most important research dealing with hot water systems. The text matter consists of seven investigations by authorities on this subject.
- "National" Bulletin No. 3. The Protection of Pipe Against Internal Corrosion (8½ x 11 in. 20 pp.) Illustrated. Discusses various causes of corrosion, and details are given of the deactivating and deaerating systems for eliminating or retarding corrosion in hot water supply lines.
- "National" Bulletin No. 25. "National" Pipe in Large Buildings. 8½ x 11 in. 88 pp. This bulletin contains 254 illustrations of prominent buildings of all types, containing "National" Pipe and considerable engineering data of value to architects, engineers, etc.
- Modern Welded Pipe**. Book of 88 pp. (8½ x 11 in.), profusely illustrated with halftone and line engravings of the important operations in the manufacture of pipe.
- Reading Iron Company**, Reading, Pa.
Reading Genuine Wrought Iron Pipe in the Making and in Service. Bulletin No. 1. 8½ x 11 in. 32 pp. Illustrated. History of the Reading Iron Company. Origin of wrought iron—description of each process of manufacture of both butt weld and lap weld pipe—Reading Pipe in various fields.
- Book of Standards**. Booklet. 5 x 7 in. 48 pp. Illustrated. Complete tables showing dimensions, tests and list price on each of the 552 different kinds of Reading Tubular goods. Two simple tests for distinguishing genuine wrought iron pipe.
- The Painted Molecule**. Booklet. 4 x 9 in. 8 pp. Illustrated. A brief, non-technical description of the reasons for the longer life of Reading Iron Pipe, with instances of actual service.
- The Ultimate Cost**. Booklet. 5¼ x 7¼ in. 24 pp. Illustrated in two colors. A comparison in actual figures of the initial cost and the ultimate cost of plumbing and heating systems in several kinds of homes.
- Grinnell Company**, 285 West Exchange Street, Providence, R. I.
Grinnell Bulletin Booklet. 10½ x 7¼ in. Illustrated. Issued monthly. Describes and illustrates the different Grinnell products.

PLUMBING EQUIPMENT

- American Brass Company**, Waterbury, Conn.
Benedict Nickel. Illustrated pamphlet descriptive of Benedict Nickel White Metal for high grade plumbing fixtures.
- Brunswick-Balke-Collender Co.**, 623 S. Wabash Ave., Chicago, Ill.
Whale-bone-ite Seat. Booklet. 3½ x 6¼ in. 4 pp. Illustrated.
- Clow & Sons, James B.**, 534 S. Franklin Street, Chicago, Ill.
Catalog "M." 9¼ x 12 in. 184 pp. Illustrated. Shows complete line of plumbing fixtures for Schools, Railroads and Industrial Plants.
- Crane Company**, 836 S. Michigan Avenue, Chicago, Ill.
Crane Products in World Wide Use. Catalog. 5 x 9½ in. 24 pp. Illustrated.
- Plumbing Suggestions for Home Builders. Catalog. 3 x 6 in. 80 pp. Illustrated.
- Plumbing Suggestions for Industrial Plants. Catalog. 4 x 6½ in. 43 pp. Illustrated.
- Douglas Co., The John**, Cincinnati, Ohio.
Catalog "C." 10½ x 8 in. 200 pp. Illustrated. Illustrates and describes the Douglas complete line of China Sanitary plumbing fixture.
- Booklet. Douglas Suggests for your Home. 6 x 3½ in. 39 pp. Illustrated.
- Eljer Company**, Fort City, Pa.
Complete Catalog. 3¼ x 6¼ in. 104 pp. Illustrated. Describes fully the complete Eljer line of standardized vitreous china plumbing fixtures, with diagrams, weights and measurements. Standardized Sixteen Circular. 3¼ x 6¼ in. 18 pp. Illustrated.
- Kohler Co.**, Kohler, Wis.
Catalog F. 7½ x 10½ in. 216 pp. Illustrates and describes the complete line of Kohler trade-marked plumbing ware.
- Roughing-In Measurement Binder. 5 x 8 in., containing loose leaf sheets on all staple fixtures.
- Maddock's Sons Company**, Thomas, Trenton, N. J.
Catalog K. 10½ x 7¼ in. 242 pp. Illustrated. Complete data on vitreous china plumbing fixtures with brief history of Sanitary Pottery.
- Mueller Co.**, Decatur, Ill.
Catalog G. 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in measurements for built-in bath equipment.
- Speakman Company**, Wilmington, Del.
Speakman Showers and Fixtures. Catalog. 4½ x 7½ in. 250 pp. Illustrated. Catalog of Modern Showers and Brass Plumbing Fixtures, with drawings showing layouts, measurements, etc.
- Toned Up in Ten Minutes. Booklet. 7½ x 10½ in. 16 pp. Illustrated. Modern Showers and Washups for Industrial Plants, showing the sanitary method of washing in running water.

PUMPS

- Chicago Pump Company**, 2300 Wolfram Street, Chicago, Ill.
The Correct Pump to Use. Portfolio containing handy data. Individual bulletins, 8½ x 11 in., on bilge, sewage, condensation, circulating, house, boiler feed and fire pumps.
- Kewanee Private Utilities Co.**, 442 Franklin St., Kewanee, Ill.
Bulletin E. 7¼ x 10¼ in. 32 pp. Illustrated. Catalog. Complete descriptions, with all necessary data, on Standard Service Pumps, Indian Brand Pneumatic Tanks, and Complete Water Systems, as installed by Kewanee Private Utilities Co.

RAMPS

- The Hockenbury System Incorporated**, Harrisburg, Pa., for years specializing in the financing of modern community hotels, of which they have financed a hundred such throughout the United States, has expanded its service to include the financing of MOTORAMP garage buildings. They now have available for distribution an 8½ x 11 booklet entitled: "The Hitching Post Problem Is Here Again," in which they explain their solution of the street motor parking problem, which will be sent free to inquiring architects.
- Ramp Buildings Corporation**, 115 Broad St., New York, N. Y.
The d'Humy Motoramp System of Building Design. Booklet. 8½ x 11 in. 20 pp. Illustrated. Describes the d'Humy system of ramp construction for garages, service buildings, factories, warehouse, etc., where it is desirable to drive motor vehicles or industrial tractors under their own power from floor to floor.
- Storage Efficiency of Multi-Floor Garages. Leaflet. 8½ x 11 in. 4 pp. Illustrated. A brief discussion of comparative storage efficiencies of elevator garages, ordinary ramp garages, and d'Humy Motoramp garages.
- Visibility. Pamphlet. 8½ x 11 in. 2 pp. Illustrated. Discussion of visibility feature of d'Humy Motoramp System with reference to illustration of one particular installation.
- Series of Informal Bulletins on Garage Design. Sent upon request.

REINFORCED CONCRETE—See also Construction, Concrete

- The General Fireproofing Company**, Youngstown, Ohio.
Self-Sentering Handbook. 8½ x 11 in. 36 pp. Illustrated. Methods and specifications on reinforced concrete floors, roofs and floors with a combined form and reinforced material.
- National Steel Fabric Co.**, Union Trust Building, Pittsburgh, Pa.
National Steel Fabric. Booklet. 32 pp. 8½ x 11 in. A valuable work on the subject of concrete and its reinforcing.
- Truscon Steel Company**, 250 W. Lafayette Blvd., Detroit, Mich.
Shearing Stresses in Reinforced Concrete Beams. Booklet. 8½ x 11 in. 12 pp.
- North Western Expanded Metal Company**, Chicago, Ill.
Designing Data. Book. 6 x 9 in. 96 pp. Illustrated. Covers the use of Econo Expanded Metal for various types of reinforced concrete construction.

ROOFS (INSULATED)

- Holorib, Inc.**, 2735 Prospect Ave., Cleveland, Ohio.
Holorib Insulated Roofs. Booklet, 16 pp. 8½ x 11 ins. Gives complete data regarding a valuable line of insulated roofing materials.

ROOFING

- American Brass Company**, Waterbury, Conn.
Service Sheets 43-1 and 43-2, standard specifications and methods of laying copper roofings, flashings, hips, valleys, decks, gutters and leaders.
- American Sheet & Tin Plate Co.**, Frick Bldg., Pittsburgh, Pa.
Better Buildings. Catalog. 8½ x 11 in. 32 pp. Describes Corrugated and Formed Sheet Steel Roofing and Siding Products, black, painted and galvanized, with directions for application of various patterns of Sheet Steel Roofing in various types of construction.
- Copper—Its Effect Upon Steel for Roofing Tin. Catalog. 8½ x 11 in. 28 pp. Illustrated. Describes the merits of high-grade roofing tin plates and the advantages of the copper-steel alloy.
- The Testimony of a Decade. Booklet. 8½ x 11 in. 16 pp., with Graphic Chart and illustrations showing losses to various Iron and Steel Sheets for roofing, from atmosphere corrosion.
- Philip Carey Co.**, Lockland, Cincinnati, Ohio.
Architects Specifications for Carey Built-up Roofing. Booklet. 8 x 10¼ in. 24 pp. Illustrated. Complete data to aid in specifying the different types of built-up roofing to suit the kind of roof construction to be covered.
- Carey Built-up Roofing for Modern School Buildings. Booklet. 8 x 10¼ in. 32 pp. Illustrated. A study of school buildings of a number of different kinds and the roofing materials adapted for each.
- Copper & Brass Research Association**, 25 Broadway, New York City
Copper Roofing. Brochure 8½ x 11 in., 28 pp. Third edition of a well-written manual on roofing.
- Copper Flashings. Brochure 8½ x 11 in. 66 pp. Illustrated second edition of a valuable treatise on an important subject.
- Federal Cement Tile Co.**, 608 So. Dearborn St., Chicago, Ill.
The Indestructible Roof. Booklet. 10 x 13 in. 32 pp. Illustrated. Illustrates and describes the installation of permanent concrete interlocking tile, tile with glass insets, flat tile and channel tile, on all types of industrial plants and other buildings with flat and pitched surfaces.
- Standards. Booklet. 8½ x 11 in. 40 pp. Illustrated with full-page drawings. Gives full details of all forms of roof construction of steel structure, ridge and gutter construction, purlin arrangement, spacing, etc., for standard roofs.

ANY ARCHITECT who wants relief from the hum-drum detail of the mortar box, will be interested in this strong Carney feature. Here is a cement that reacts to adulteration or over sanding as surely as litmus reacts to acid. You don't need to stand over the mixer on a Carney job. If too much sand is added, the mortar immediately reflects it. Its natural plasticity is affected, and is quickly detected by the masons.

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Specifications: 1 part Carney to 4 parts sand.

CARNEY

for Brick and Tile Mortar



*THE JACKSON BUILDING AND
THE NESTALL BUILDING
Asheville, N. C.

*Architect—DONALD GREENE,
Asheville, N. C.
Contractor—MERCHANT CONST. CO.,
Asheville, N. C.

¶ All of the brick and tile in the
above buildings were laid up
in Carney.

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 98

ROOFING—Continued

- Johns-Manville, Inc.**, Madison Ave. & 41st St., New York, N. Y.
Johns-Manville Building Materials. Book. $8\frac{1}{2} \times 11$ in. 100 pp. Illustrated. A comprehensive catalog of various types of roofing for all forms of construction. Details of wall, floor and ceiling insulation; asbestos wood for fireproof construction; waterproofing, etc.
- Johns-Manville Asbestos Shingles. Booklet. $8\frac{1}{2} \times 11$ in. 24 pp. Illustrated. This booklet is profusely illustrated in colors, showing some very artistic blends of asbestos shingles with various types of architecture. Contains many valuable suggestions for the architect.
- Ludowici-Celadon Company**, 104 So. Michigan Ave., Chicago, Ill.
"Ancient" Tapered Mission Tiles. Leaflet. $8\frac{1}{2} \times 11$ in. 4 pp. Illustrated. For architects who desire something out of the ordinary, this leaflet has been prepared. Describes briefly the "Ancient" Tapered Mission Tiles, hand-made, with full corners and designed to be applied with irregular exposures.
- Milwaukee Corrugating Co.**, Milwaukee, Wis.
The Milcor Architectural Sheet Metal Guide. Booklet. $8\frac{1}{2} \times 11$ in. 64 pp. Illustrated. Gives valuable technical sheet metal data.
- National Slate Association**, 791 Drexel Building, Philadelphia, Pa.
Slate Roofs. Book, 84 pages. $8\frac{1}{2} \times 11$ ins. Illustrated. Just off press; most complete specification information, practical ideas and other authoritative industry data, tables on grading, color designation, etc., on American roofing slates. Sent free to architects applying on their office stationery. To others, \$1.50.
- New Jersey Zinc Company**, 160 Front St., New York, N. Y.
Standing Seam Horse Head Zinc Roofing. Booklet outlining the adaptability of this roofing for many types of buildings. Illustrated with sketches showing how roofing is applied. Also describes lasting qualities, appearance, etc.
Once in a Lifetime. Booklet describing conductors, gutters and standing seam roofing made from Horse Head Zinc. Contains information on their economy and durability. Illustrated.
- Ruberoid Co., The** (formerly the Standard Paint Co.), 95 Madison Avenue, New York, N. Y.
Instructions for Laying Built-up Roofs. Booklet. $8\frac{1}{2} \times 11$ in. Illustrated.
Ruberoid Strip Shingle. Booklet. $3\frac{1}{2} \times 6\frac{1}{4}$ in. 16 pp. Illustrated in color.
- U. S. Gypsum Co.**, Chicago.
Pyrobar Roof Construction. Booklet. 8×11 in. 48 pp. Illustrated. Gives valuable data on the use of tile in roof construction.
Sheetrock Pyrofill Roof Construction. Folder. $8\frac{1}{2} \times 11$ in. Illustrated. Covers use of roof surfacing which is poured in place.

SASH CHAIN

- American Chain Company, Inc.**, Bridgeport, Conn.
American Sash Chain. Booklet. 6×9 in. 16 pp. Illustrated. Describes and illustrates American Sash Chain and Sash Fixtures.
- Smith & Egge Mfg. Co., The**, Bridgeport, Conn.
Chain Catalog. $6 \times 8\frac{1}{2}$ in. 24 pp. Illustrated. Covers complete line of chains.

SASH CORD

- Samson Cordage Works**, Boston, Mass.
Catalog. $3\frac{1}{2} \times 6\frac{1}{4}$ in. 24 pp. Illustrated. Covers complete line of rope and cord.

SCREENS

- Athey Company**, 6015 West 65th St., Chicago, Ill.
The Athey Perennial Window Shade. An accordion pleated window shade, made from translucent Herringbone woven Coutil cloth, which raises from the bottom and lowers from the top. It eliminates awnings, affords ventilation, can be dry-cleaned and will wear indefinitely.
- Copper & Brass Research Association**, 25 Broadway, New York City
Screens That Keep Them Out. Booklet 6×9 in. 16 pp. A valuable brochure on wire mesh of rust-proof and pest-proof screen material.
- The Higgin Manufacturing Co.**, Newport, Ky.
Your Home Screened the Higgin Way. Booklet. $8\frac{1}{2} \times 11\frac{1}{2}$ in. 13 pp. Illustrated in colors. Complete description of Higgin Screens, designed to meet every need.
- New Jersey Wire Cloth Co.**, Trenton, N. J.
A Matter of Health and Comfort. Booklet. $5 \times 7\frac{3}{4}$ in. 16 pp. Illustrated. Discusses quality in wire insect screen cloth.

SEWAGE DISPOSAL

- Kewanee Private Utilities**, 442 Franklin St., Kewanee, Ill.
Specification Sheets. $7\frac{3}{4} \times 10\frac{1}{4}$ in. 40 pp. Illustrated. Detailed drawings and specifications covering water supply and sewage disposal systems.

SHEATHING

- Bishopric Manufacturing Co.**, 103 Este Ave., Cincinnati, Ohio.
For All Time and Clime. Booklet. 6×9 in. 48 pp. Illustrated. Describing the use of Bishopric stucco base and Bishopric plaster base.

SHELVING-STEEL

- David Lupton's Sons Company**, Philadelphia.
Lupton Steel Shelving. Catalog D. Illustrated brochure, 40 pp., $8\frac{1}{2} \times 11$ ins. Deals with steel cabinets, shelving, racks, doors, partitions, etc.

STAINS—See Paints, Varnishes, Wood Finishes

STONE, BUILDING

- Indiana Limestone Quarrymen's Association**, Box 766, Bedford, Ind.
Volume 3, Series A-3. Standard Specifications for Cut Indiana Limestone work, $8\frac{1}{2} \times 11$ in. 56 pp. Containing specifications and supplementary data relating to the best methods of specifying and using this stone for all building purposes.
- Vol. 1. Series B. Indiana Limestone Library. 6×9 in. 36 pp. Illustrated. Giving general information regarding Indiana Limestone, its physical characteristics, etc.
- Vol. 4. Series B. Booklet. New Edition. $8\frac{1}{2} \times 11$ in. 64 pp. Illustrated. Indiana Limestone as used in Banks.
- Volume 5. Series B. Indiana Limestone Library. Portfolio. $11\frac{1}{4} \times 8\frac{1}{4}$ in. Illustrated. Describes and illustrates the use of stone for small houses with floor plans of each.

STORE FRONTS

- Brasco Manufacturing Co.**, 5025-35 South Wabash Avenue, Chicago, Ill.
Portfolio. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. Selected examples of Brasco Copper Store Fronts suitable for different businesses and varying conditions of locations.
- Catalogue 28. $8\frac{1}{2} \times 10\frac{3}{4}$ in. 20 pp. Illustrated with plates. Details of Brasco Copper Store front construction. Also show-cases, ventilator sashes.
- Detail Sheets. Set of five sheets giving details and suggestions for store front designing enclosed in envelope convenient for filing.
- Kawneer Co., The**, Niles, Mich.
A Collection of Successful Designs. Catalog. $9\frac{1}{4} \times 6\frac{1}{2}$ in. 64 pp. Illustrated. Showing by use of drawings and photographs many types of Kawneer Solid Copper Store Fronts.
- Catalog L, 1925 Edition. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. Details of copper store front construction.
- Metal Store Fronts. Sheets, 17×22 in. Draftsmen's details of copper store fronts for use in tracing.
- Zouri Drawn Metals Company**, Chicago Heights, Ill.
Zouri Safety Key-Set Store Front Construction. Catalogue. $8\frac{1}{2} \times 10\frac{1}{2}$ in. 60 pp. Illustrated. Complete information with detailed sheets and installation instructions convenient for architects' files.
- International Store Front Construction. Catalogue. $8\frac{1}{2} \times 10$ in. 70 pp. Illustrated. Complete information with detailed sheets and installation instructions convenient for architects' files.

STUCCO

- Bishopric Manufacturing Co.**, 103 Este Ave., Cincinnati, Ohio.
For All Time and Clime. Booklet. 6×9 in. 48 pp. Illustrated. Describing the use of Bishopric stucco base and Bishopric plaster base.

STUCCO BASES

- Bishopric Manufacturing Co.**, 103 Este Ave., Cincinnati, Ohio.
Specifications and Working Details. Booklet. $7\frac{3}{4} \times 10\frac{1}{4}$ in. Illustrated. Contains plainly written instructions for the use of stucco, stucco base, plaster base and insulation base.
- National Steel Fabric Co.**, Union Trust Building, Pittsburgh, Pa.
Building a Permanent Home. Brochure 4×9 ins. 20 pp. Discusses the use of steel materials in domestic buildings in a way likely to interest architects and builders.
- Sales Manual. Loose leaf, $8\frac{1}{2} \times 11$ ins. Complete data and specifications regarding the use of this company's products.

SWIMMING POOL EQUIPMENT

- Rohmer Standard Swimming Pool Equipment**, 516 Fifth Avenue, New York. Phone Murray Hill 1138. See Sweet's Catalog, pages 468-471, for details and specifications.

SWIMMING POOL EQUIPMENT & STERILIZATION

- R. U. V. Company, Inc.**, 383 Madison Avenue, New York City
Water Sterilization by Means of Ultra Violet Rays. Booklet $8\frac{1}{2} \times 11$ in. 16 pp. Full data on a system of purifying water.
- Swimming Pool Sterilization. Booklet $8\frac{1}{2} \times 11$ in. 24 pp. Describes a method purifying water in bathing pools.
- Wallace & Tiernan Company**, Newark, N. J.
Protecting N. Y. Water Supply. Booklet. 10×7 in. 4 pp. Illustrated. Describes the chlorinating equipment used for sterilizing N. Y. City water supply; also equipment suitable for sterilizing water supplies of municipalities, industrial plants, private residences, etc.
- The W. & T. Chlorometer, Technical Publication, No. 55. Booklet, $8\frac{1}{2} \times 11$ in. 8 pp. Illustrated. A useful brochure dealing with the value of pure water and the importance of the chlorination process in sterilization.

STUCCO, MAGNESITE

- Muller & Co., Franklyn R.**, Waukegan, Ill.
Everlastic Magnesite Stucco. Booklet. $8\frac{1}{2} \times 11$ in.

TECHNICAL PAINTING

- Toch Brothers**, 110 East 42nd Street, New York City.
Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.

TERRA COTTA

- National Terra Cotta Society**, 19 West 44th St., New York, N. Y.
Standard Specifications for the Manufacture, Furnishing and Setting of Terra Cotta. Brochure $8\frac{1}{2} \times 11$ in. 12 pp. Furnishing and Setting of Terra Cotta, consisting of complete detail Specification, Glossary of Terms Relating to Terra Cotta and Short Form Specification for incorporating in Architect's Specifications.

“...and a smooth surface roofing”

says A. O. ELZNER

“When the new Children’s Hospital in Cincinnati—now in course of construction—is completed, it will be covered with a smooth surface roof,” says A. O. Elzner of the firm of Elzner & Anderson, prominent Cincinnati architects.

“We selected a smooth surface roofing because, in our opinion, this type of roofing—equally adapted to steep and flat roof decks—offered an economical, yet highly satisfactory covering for the flat roof deck of the hospital.”

* * * * *



The new Children’s Hospital, Cincinnati—Stanley Matthews and Elzner & Anderson, Architects. This building, now in course of construction, will have its entire roof deck covered with a Carey Built-Up Roof, except the four wings, where promenade tile has been laid over Carey materials.

The roof selected for the new Children’s Hospital is a Carey Built-up Roof, similar to the type used on hundreds of other hospitals, schools and large buildings in all parts of the country. The advantages of the Carey system of complete control of both felt and asphalt are

shown by the fact that many Carey Built-up Roofs are still giving good service after several decades of exposure to the elements.

THE PHILIP CAREY COMPANY
Lockland, Cincinnati, Ohio

Note to architects: Write for our Architects’ Specification Book.

Carey

BUILT-UP ROOFS

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 100

TERRA COTTA—Continued

Color in Architecture. Revised Edition. Permanently bound volume $9\frac{1}{2} \times 12\frac{1}{4}$ in., containing a treatise upon the basic principles of color in architectural design, illustrating early European and modern American examples. Excellent illustrations in color.

Present Day Schools. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrating 42 examples of school architecture with article upon school building design by James O. Betelle, A. I. A.

Better Banks. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrating many banking buildings in terra cotta with an article on its use in bank design by Alfred C. Bosson, Architect.

THERMOSTATS—See Heating Equipment

TILE, HOLLOW

National Fire Proofing Co., 250 Federal St., Pittsburgh, Pa. Standard Wall Construction Bulletin 174. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. A treatise on the subject of hollow tile wall construction.

Natco on the Farm. $8\frac{1}{2} \times 11$ in. 38 pp. Illustrated. A treatise on the subject of fire safe and permanent farm building construction.

Natco Homes and Garages. Booklet. 7×10 in. 32 pp. Illustrated. Showing the use of Natco Hollow Tile for private residences.

VACUUM CLEANING APPARATUS

The Spencer Turbine Company, Hartford, Conn.

Vacuum Cleaning Apparatus for all purposes. Booklet. 32 pp. Illustrated. Complete information on product, showing prominent buildings equipped with this system.

VALVES

Crane Co., 836 S. Michigan Ave., Chicago, Ill.

No. 51. General Catalogue. Illustrated. Describes the complete line of the Crane Co.

Illinois Engineering Co., Racine Ave., at 21st St., Chicago, Ill.

Catalogue. $8\frac{1}{2} \times 11$ in. 88 pp. Illustrated.

Jenkins Bros., 80 White Street, New York.

The Valve Behind a Good Heating System. Booklet $4\frac{1}{2} \times 7\frac{3}{4}$ in. 16 pp. Color plates. Description of Jenkins Radiator Valves for steam and hot water, and brass valves used as boiler connections.

Jenkins Valves for Plumbing Service. Booklet. $4\frac{1}{2} \times 7\frac{3}{4}$ in. 16 pp. Illustrated. Description of Jenkins Brass Globe, Angle Check and Gate Valves commonly used in home plumbing, and Iron Body Valves used for larger plumbing installations.

Mueller Co., Decatur, Ill.

Catalog G, 8×11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in measurements for built-in bath equipment.

VARNISH—See Paints, Stains, Varnishes

VENETIAN BLINDS

Burlington Venetian Blind Co., Burlington, Vt.

Venetian Blinds. Booklet, 7×10 in., 24 pages. Illustrated. Describes the "Burlington" Venetian blinds, method of operation, advantages of installation to obtain perfect control of light in the room.

VENTILATION

Globe Ventilator Company, 205 River Street, Troy, N. Y.

Globe Ventilators Catalog. 6×9 in. 32 pp. Illustrated profusely. Catalog gives complete data on "Globe" ventilators as to sizes, dimensions, gauges of material and table of capacities. It illustrates many different types of buildings on which "Globe" ventilators are in successful service, showing their adaptability to meet varying requirements.

Van Zile Ventilating Corporation, 280 Madison Avenue, New York, N. Y.

The Ventadoor Booklet. $6\frac{1}{2} \times 3\frac{1}{2}$ in. 16 pp. Illustrated. Describes and illustrates the use of the Ventadoor for Hotels, Clubs, Offices, etc.

WALLPAPER

Wallpaper Mfrs. Assn., 461 Eighth Avenue, New York.

Wallpaper Magazine. Illustrated. 8×11 in. 32 pp. Published monthly to acquaint architects and interior decorators with many interesting and decorative uses for wallpaper.

WATERPROOFING

Carey Company, The Philip, Lockland, Cincinnati, Ohio.

Waterproofing Specification Book. $8\frac{1}{2} \times 11$ in. 52 pp.

The General Fireproofing Company, Youngstown, Ohio.

Waterproofing Handbook. Booklet. $8\frac{1}{2} \times 11$ in. 72 pp. Illustrated. Thoroughly covers subject of waterproofing concrete, wood and steel preservatives, dustproofing and hardening concrete floors, and accelerating the setting of concrete. Free distribution.

Master Builders Company, Cleveland, Ohio.

Mastertex: Waterproof Cement Paint in Colors. Folder $10\frac{1}{2} \times 12\frac{1}{2}$ inches.

Ruberoid Co., The. 95 Madison Ave., New York.

Impervite. Circular. $8\frac{1}{2} \times 11$ in. 4 pp. Illustrated. An integral water-proofing compound for concrete, stucco, cement, mortar, etc.

Sandusky Cement Co., Dept. F., Cleveland, Ohio.

Medusa Waterproofing. Booklet. $6\frac{1}{4} \times 9$ in. 38 pp. Illustrated.

Sonneborn Sons, Inc., L., 116 Fifth Ave., New York, N. Y.

Pamphlet. $3\frac{3}{4} \times 8\frac{3}{4}$ in. 8 pp. Explanation of waterproofing principles. Specifications for waterproofing walls, floors, swimming pools and treatment of concrete, stucco and mortar.

WATERPROOFING

Toch Brothers, 110 East 42nd Street, New York City.

Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.

WATER SOFTENERS

Permutit Company, The, 440 Fourth Ave., New York, N. Y.

Permutit-Water softened to No (Zero) Hardness. Booklet. $8\frac{1}{2} \times 11$ in. 32 pp. Describing the original Zeolite process of softening water to zero hardness. An essential for homes, hotels, apartment houses, swimming pools, laundries, textile mills, paper mills, ice plants, etc., in hard water districts.

WEATHER STRIPS

Chamberlin Metal Weather Strip Company, 1644 Lafayette Boulevard, Detroit, Mich.

Chamberlin Metal Weather Strip Details, 1925 edition. Catalog $8\frac{1}{2} \times 11$ in. 48 pp. Complete specifications and full-sized details. With or without $9 \times 11\frac{1}{4}$ in. folder conforming to A. I. A. filing system. May also be used in loose leaf form. Excluding Cold and Dust with Chamberlin for 32 years. Booklet $5\frac{1}{2} \times 7\frac{3}{4}$ in. 16 pp. Illustrated. Completely and interestingly illustrates application of Chamberlin equipment.

The Higgin Manufacturing Co., Newport, Ky.

Higgin All-Metal Weather Strips. Booklet. 6×9 in. 21 pp. Illustrated in colors. Describes various types of Higgin Weather Strips for sealing windows and doors against cold and dust.

WINDOWS

David Lupton's Sons Company, Philadelphia.

Lupton Pivoted Sash, Catalog 12-A. Booklet 48 pp., $8\frac{1}{2} \times 11$ ins. Illustrates and describes windows suitable for manufacturing buildings.

WINDOWS, CASEMENT

Richards-Wilcox Mfg. Co., Aurora, Ill.

Casement Window Hardware. Booklet. 24 pp. $8\frac{1}{2} \times 11$ in. Illustrated. Shows typical installations, detail drawings, construction details, blue-prints if desired. Describes AIR-way Multifold Window Hardware.

Crittall Casement Window Co., 10951 Hearn Ave., Detroit, Mich.

Catalog No. 22. 9×12 in. 76 pp. Illustrated. Photographs of actual work accompanied by scale details for casements and composite steel windows for banks, office buildings, hospitals and residences.

Hope & Sons, Henry, 103 Park Ave., New York, N. Y.

Catalog. $12\frac{1}{4} \times 18\frac{1}{2}$ in. 30 pp. Illustrated. Full size details of outward and inward opening casements.

David Lupton's Sons Company, Philadelphia.

Lupton Casements of Copper-Steel. Catalog C-122. Booklet 16 pp., $8\frac{1}{2} \times 11$ ins. Illustrated brochure on casements, particularly for residences.

WINDOWS, STEEL AND BRONZE

The Kawneer Company, Niles, Mich.

Kawneer Simplex Windows. Catalog. $8\frac{1}{2} \times 10\frac{1}{2}$ in. 16 pp. Illustrated. Complete information, with measured details, of Kawneer Simplex Weightless Reversible Window Fixtures, made of solid bronze. Shows installations in residences and buildings of all sorts.

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Metal Windows. Catalog. $8\frac{1}{2} \times 11$ in. 18 pp. Illustrated. Features double-lining and casement windows of metal.

David Lupton's Sons Company, Philadelphia.

A Rain-shed and Ventilator of Glass and Steel. Pamphlet, 4 pp. $8\frac{1}{2} \times 11$ ins. Deals with Pond Continuous Sash, Sawtooth Roofs, etc.

Truscon Steel Company, 250 W. Lafayette Blvd., Detroit, Mich.

Truscon Steel Windows. Catalog. $8\frac{1}{2} \times 11$ in. 80 pp. Illustrated. Contains complete data on all types of Truscon Steel Windows.

WOOD—See also Millwork

American Walnut Mfrs. Association, 618 So. Michigan Blvd., Chicago, Ill.

American Walnut. Booklet. 7×9 in. 45 pp. Illustrated. A very useful and interesting little book on the use of Walnut in Fine Furniture with illustrations of pieces by the most notable furniture makers from the time of the Renaissance down to the present.

Real American Walnut Furniture. Folder. $8\frac{1}{2} \times 11$ in. 4 pp. Illustrated. Tells how to identify the genuine and avoid the substitute in buying "Walnut" furniture.

California White and Sugar Pine Mfrs. Assn., San Francisco, Cal.

Information Sheet No. 1, California White Pine; Information Sheet No. 2, California Sugar Pine. Illustrated booklets $8 \times 10\frac{1}{2}$ in. First of a series of Information Sheets on these woods and their uses for construction and finish.

Curtis Companies Service Bureau, Clinton, Iowa.

Better Built Homes. Vols. XV-XVIII, incl. Booklet. 9×12 in. 40 pp. Illustrated. Designs for houses of five to eight rooms, respectively, in several authentic types, by Trowbridge & Ackerman, architects, for the Curtis Companies.

Long-Bell Lumber Co., Kansas City, Mo.

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Saving Home Construction Costs. Booklet $4\frac{1}{2} \times 7\frac{1}{2}$ in. 24 pp. Discusses economy and value in domestic building.

Experiences in Home Building. Booklet 6×9 in. 16 pp. Records the testimony of a number of builders and contractors as to the value of certain materials.

The Post Everlasting. Booklet 8×11 in. 32 pp. Illustrated.

Describes the production of posts and their use in various ways. Booklet. 6×8 in. Architectural Woodwork of Mahogany. 32 pp., fully illustrated with photographs of mahogany panelings and containing much information of interest to architects.

WOOD FINISHES—See Paints, Varnishes, Stains

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A mill-seasoned softwood of STRUCTURAL USEFULNESS



California White Fir grows in the mountain zone throughout the California Pine region. It is abundant in the main timber belt of the Sierra Nevada, at altitudes of 2500 to 8000 feet.

Grayish white in color, light in weight, soft and uniform of texture, and with very moderate shrinkage, California White Fir, in many of its mechanical properties, compares closely with Sitka Spruce and Eastern Hemlock. The U. S. Forest Products Laboratory places White Fir in the same class with airplane spruce in weight. In strength as beam or post, in hardness and stiffness, it is classified with spruce and hemlock. It has much the same shrinkage as hemlock, and slightly less than spruce.

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The present stand of California White Fir is estimated at 33 billion feet. The annual cut is now 225 million feet, or, at the present cutting rate the available supply should last for well over two centuries.

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Rapid, efficient construction work is materially aided by the light weight of White Fir, and by the ease with which it is cut and handled. Seasoned and dressed at the sawmill, this wood reaches

the buyer clean and smooth. Seasoning at the mill eliminates loss by dealers from defects which develop during seasoning. Mill-seasoned White Fir cuts transportation cost to the dealer's yard and saves him piling space. And it absolutely eliminates the danger of putting green lumber into construction work. Dressing at the mill after the wood has been seasoned contributes another direct advantage to the buyer and user. For example, framing lumber that has been dressed while green requires more work by carpenters to secure level floors, and walls of uniform thickness. Floor joists dressed while green and then seasoned often vary from one-quarter to one-half inch in width. Unless the carpenter shims up or notches down joists of different widths, a wavy floor will result. Mill-seasoned, mill-dressed, California White Fir eliminates these dangers—and materially increases rapid and accurate construction.

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California White Fir is graded under the specifications of the California White & Sugar Pine Manufacturers Association, which conform closely to AMERICAN LUMBER STANDARDS. Sawmill graders are instructed by an efficient corps of Association inspectors who continually visit among all mills, maintaining a high degree of uniformity in the product.

California WHITE & SUGAR PINE

Manufacturers Association

654 CALL BUILDING, SAN FRANCISCO

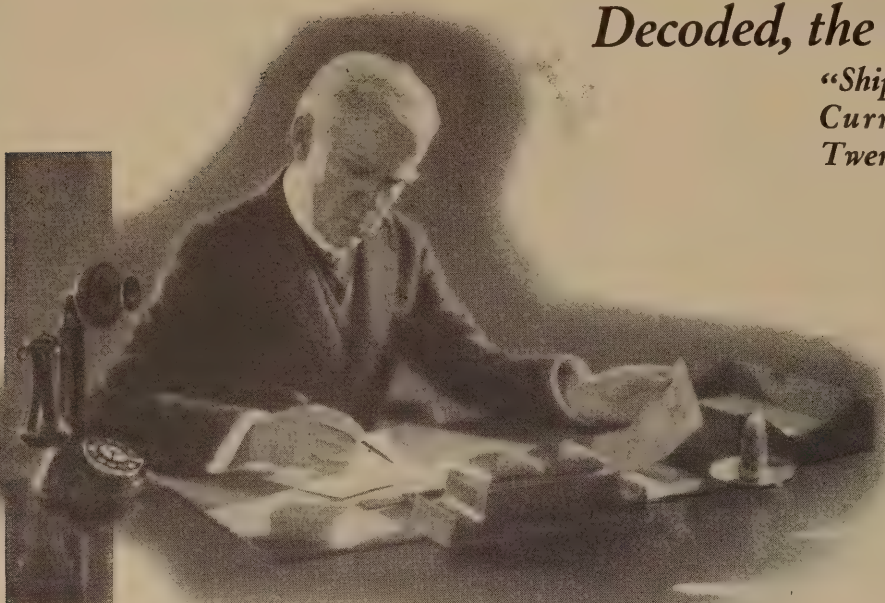
Also Producers of CALIFORNIA WHITE FIR
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Dry kilns play an important part in preparing California White Fir for best use.



A well-drained, open yard in which California White Fir is seasoned.



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*"Ship us Twenty Thousand
Currency Fives, Tens,
Twenties today sure."*

Thirty Minutes to Train Time

A TELEGRAM from an out-of-town bank, urgently requesting an immediate shipment of currency. It *must* arrive before opening time next morning.

The Commerce Trust Company of Kansas City receives the correspondent bank's message shortly before closing time. In just a half hour, the last train which can carry the shipment, is scheduled to leave.

The Vice President, in charge of Banks and Banking, reaches for his P-A-X. Three swift, sure turns of the dial. Promptly the Chief Clerk responds, receives the Vice President's instructions and relays them, via P-A-X, to the Currency Shipment Teller. Another speedy spin of the P-A-X dial. The Transit Department delegates a special messenger to deliver the package, properly insured and registered, to the train.

In less than five minutes, four separate departments have been co-ordinated.

The needs of a customer five hundred miles away have been supplied with ease, dispatch and no lost motion.

In handling the banking business of a *hundred thousand* customers, whose combined accounts total *one hundred million* dollars, the executives of Kansas City's largest financial institution find P-A-X indispensable.

Varied and various are the ways in which it functions in banking service . . . Mrs. Carter loses a check while shopping . . . The Assistant Cashier turns to his P-A-X, dials the proper departments . . . Instantly, payment is stopped on the lost check.

Ready messenger to executives in all departments, P-A-X saves each of them an average of an hour's time daily . . . It makes no mistakes . . . It is always at hand . . . It facilitates and expedites service, eliminates the cost of operators and pays for itself every day in practical, smooth-running service.



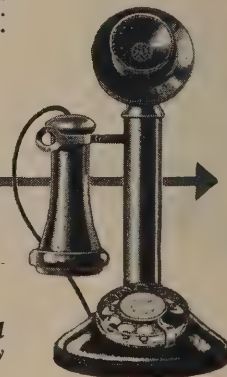
The P-A-X is, fundamentally, a private automatic telephone exchange built of the same Strowger type of automatic telephone equipment being so widely adopted for city service. The P-A-X may be furnished to include and co-ordinate such services as code call, conference, executive's priority, emergency alarm, etc., to meet individual needs.

Automatic Electric Inc.

Home Office and Factory, CHICAGO, ILL., Branch Offices: New York, 21 East Fortieth St.; Cleveland, Cuyahoga Bldg. Representatives in all principal cities. In Canada—Northern Electric Co., Ltd., 121 Shearer St., Montreal, P. Q. Abroad—International Automatic Telephone Co., Norfolk House, Norfolk St., Strand, London, W. C. 2, England. In Australia—Automatic Telephones, Ltd., Mendes Chambers, Castlereagh St., Sydney.



Automatic Electric Inc. is the originator of P-A-X and is the only organization in the United States manufacturing interior telephone equipment under this trade-mark. Its use by any other company is absolutely unauthorized.





*A
new name
that's fifty-
six years
old ∞ ∞ ∞*

GraybaR

Western

SUPPLY

Changes name—

Effective January 1st, that part of the Western Electric Company known as the Supply Department takes Graybar Electric Company as its name. This involves no change whatever in the existing distributing organization. Nor does it affect the facilities offered to buyers of electrical supplies all over the country. The significance of the change is found rather in the source of the new name, 56 years earlier in the history of the company.

In 1869 Gray and Barton began the making of electrical supplies. In the early seventies Western Electric was adopted as the company name. After Bell invented the telephone in 1876, telephones were added



Electric

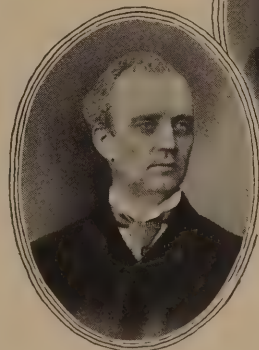
DEPARTMENT

to the line, and in 1882 the company became the manufacturing department of the Bell Telephone System.

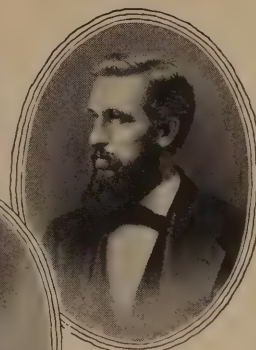
During all these years the company has carried on at the same time a merchandising business under the title of the Supply Department, selling to the American public all types of electrical products. The growing complexity of these dual responsibilities—on the one hand, to the Bell Telephone System; on the other, to the general user of electrical supplies—now makes it advisable to separate the two functions. Hence the Supply Department, serving as before in every electrical field, becomes a distinct corporate organization.

It takes the name Graybar, derived from Gray and Barton. A new name; but carrying with it a reputation 56 years old.

Founders in 1869
of Gray and Barton,
now Graybar
Electric Company



Enos M. Barton



Elisha Gray

GraybaR

E L E C T R I C
C O M P A N Y - - - I N C O R P O R A T E D

SUCCESSOR TO SUPPLY DEPT.

Western Electric



*Looking
forward
to the next
fifty-six
years of
service*

GraybaR
E L E C T R I C
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Western Electric

Again



Is Chosen by One of America's Finest Theaters

The magnificent new Paramount Theater, Times Square, New York, designed by C. W. and Geo. L. Rapp, Architects, contains everything modern in theater equipment—including an FA Major All-Master System, of course.

MORE and more it is becoming a standard practice among leading architects to include an FA All-Master Major System in the specifications of fine theaters. Installations now serving in America's most modern theaters dot the map from coast to coast.

In the FA All-Master Major System the most flexible and economical control of theater lighting possible is offered. One, ten, twenty, thirty—or as many lighting scenes as desired can be pre-selected on the "FA Major" and at the proper cue any scene can be automatically changed by one All-Master Switch.

FA Major All-Master Systems are all of the same high grade construction. Unit assemblage provides a size for every need. Not only are "FA Majors" suited to larger theaters, but to the moderate auditorium's requirements as well.

Complete estimates and details on all theater and auditorium jobs are furnished without cost or obligation. Our engineers—the men who consulted on the Paramount, The Uptown, the Orpheum and many other fine theaters—await your call.

Frank Adam

ELECTRIC COMPANY

ST. LOUIS

Our Branch Offices Are Fully Equipped to Offer
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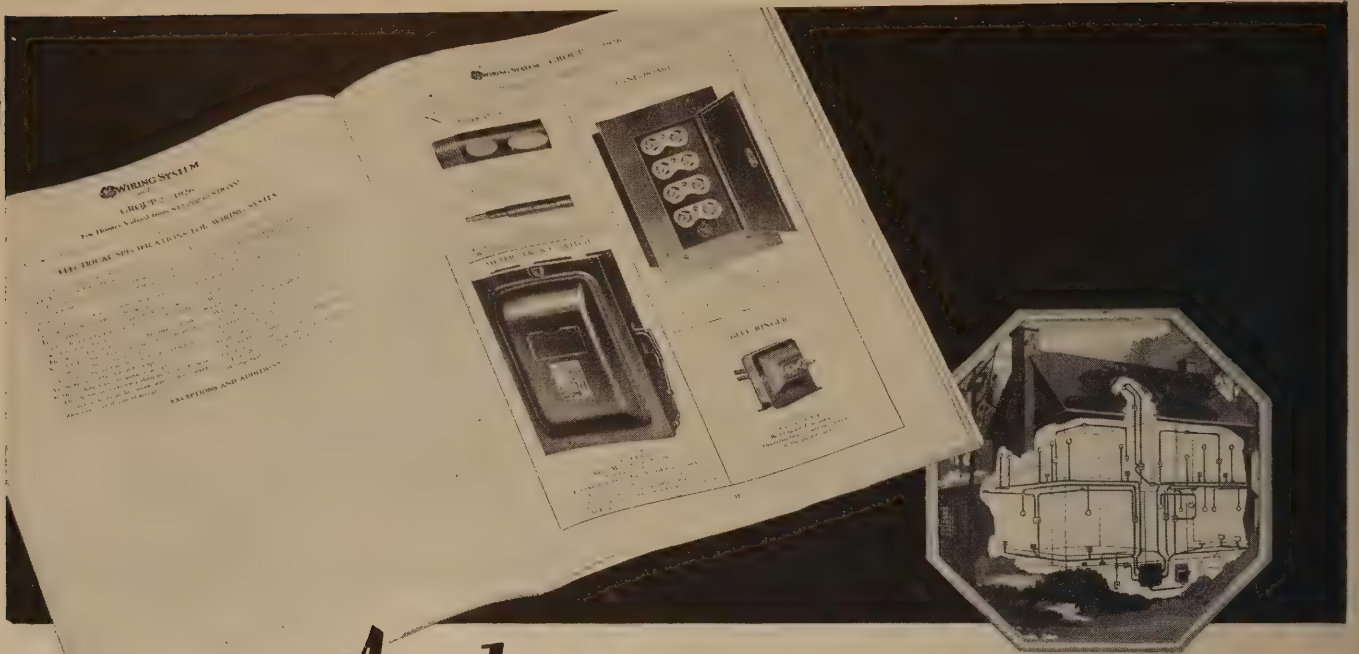


FROM COAST TO COAST

The Uptown Theater, Chicago, designed by C. W. and Geo. L. Rapp for Balaban and Katz, has one of the largest FA Major All-Master Systems in the world.



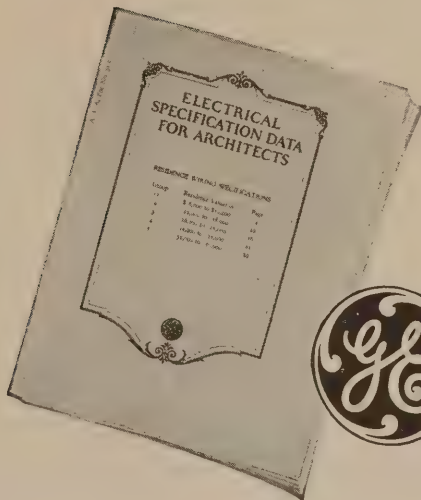
New Orpheum Theater, Los Angeles, designed by G. A. Lansburgh, Architect, for the Orpheum Circuit equipped with FA Major All-Master System, as are all good theaters.



At last—wiring specifications entirely simplified

Write for your copy of
the G-E Specification Data
Book for Architects.

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Merchandise Department
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Bridgeport, Connecticut



1 You simply copy from the Data Book the G-E Wiring System specifications for the particular class of house you are building—noting any additions or exceptions. Every piece of material needed in a complete wiring system is pictured in the book, and you get exactly what you are ordering without going into tiny technical details.

2 The contractor, guided by a Data Book that is a companion to the architects', bids on exactly what you order—and presents the bid on a new G-E Proposal Form that you can read at a glance.

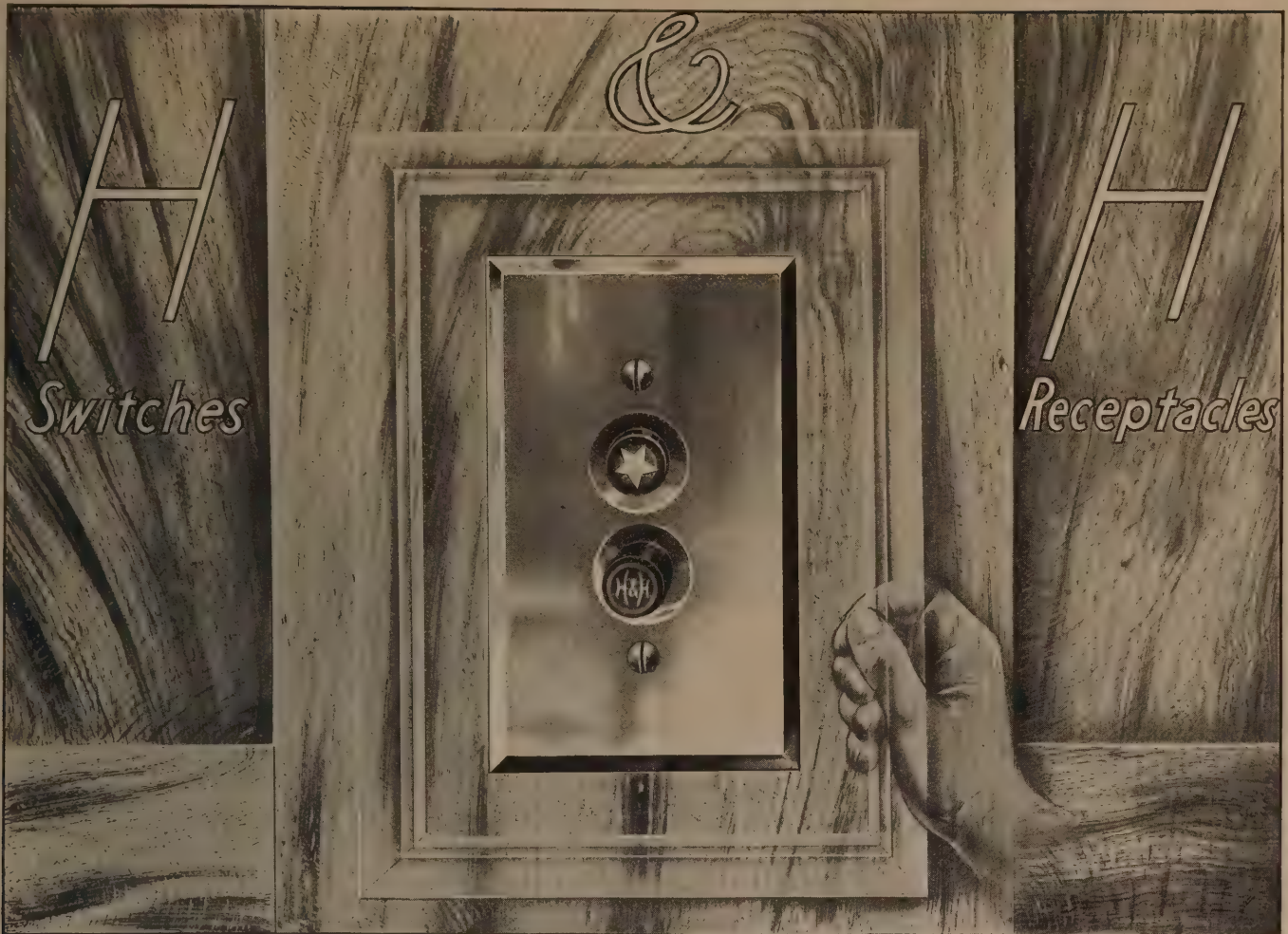
3 You get truly competitive bids—on materials of highest quality—all guaranteed by General Electric. And the house you are planning is wired to the highest satisfaction of your client.



WIRING SYSTEM

—for lifetime service

GENERAL ELECTRIC



H&H Flush Switches—Up Front

FOR "TUMBLER" REQUIREMENTS:

NO. 8601 SQUARE



Has the famous feature of the *Balanced Movement*; puts the user in touch with quality he can feel. Most quiet, easy-throw mechanism in any Tumbler; most positive action. Exclusive in looks and in "works", but competitive-priced.

FOR GREAT SERVICE-LIFE:

"2081" PUSH SWITCH



The "Old Reliable" for quiet, enduring service. Buttons press with an even tension; no more resistance near the end of the stroke than at the beginning. No jar as the contacts meet. Maximum value at medium price.

FOR THE COSTLY EDIFICE:

"GOLD STAR" PUSH

For *de luxe* jobs needing every refinement of fine artisanship. Works with the lightest of touch and complete lack of jar. Called "Silver Star" when ordered with luminous push-button.



FOR SHALLOW PARTITION WORK:

"NUTMEG" 4401-S.

Leading all switches in number installed; leading all competitive-price switches in sturdiness. Good enough so your modest jobs may safely be judged by the switches. Refer to your *H&H Architect's Handbook*—to



Always Install Good Switches

THE HART & HEGEMAN MFG. CO. HARTFORD, CONN.

Makers of Electric Switches since 1891.

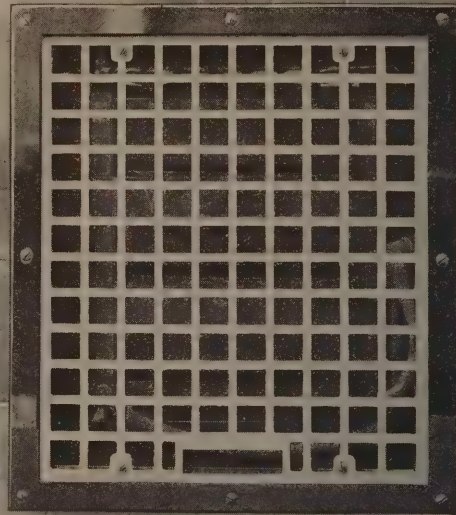
PROMETHEUS

The New Electric Bath Room Heater of Distinction

THIS new electric bath room heater is of the convection type. It warms a large volume of air, and keeps it circulating, thus effectively warming the entire room.

Write for circular A

The Prometheus Electric Corp.
358 West 13th Street New York



Holtzer-Cabot BANK PROTECTION SYSTEMS

There is an immediate and URGENT need for the Holtzer-Cabot Bank Alarm System in EVERY bank not so equipped.

The installation—the cost of which may be negligible compared to one successful hold-up—has a many-fold effect. Veteran bandits, of which there are a great many, give banks so equipped a wide berth, the risk is too great. The amateur hold-up man can be caught red-handed before he gets the cash or valuables—the action of this system is inconspicuous and operated without the bandit being aware. And depositors feel a greater sense of security when their bank is Holtzer-Cabot equipped.

Recommend that this bank alarm system be installed in all new bank construction and suggest the value to older clients in this field.

[A CONFIDENTIAL BOOK—
LET will be mailed to any
reputable architect on request]

The HOLTZER-CABOT ELECTRIC Co.

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Street
BOSTON, MASS.

Holtzer-Cabot

6165 South
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THE CUTLER MAIL CHUTE

*manufactured in our own factory and
installed by our own Experienced
Factory Erectors, insuring uniform ex-
cellence of workmanship and prompt
and satisfactory service.*

*Specify MODEL F Standard Equipment
for Cutler quality at minimum cost. Send
for form giving information required
for estimating.*

CUTLER MAIL CHUTE CO.
ROCHESTER, N. Y.



The Shadow Chasers

THE final appearance and desirability of office building interiors are largely determined by the lighting system you provide. A good lighting system—one that avoids sharp Shadow and harsh Glare—is of direct value to owner and tenant alike: to the former from a renting standpoint, and to the latter in the interests of his business.

Shadow in the office is displeasing and depressing, and when contrasted with Glare, causes eye-strain, fatigue, inaccuracy—a combination of evils that reduces productivity and seriously impairs morale. Thus shadowless, glareless light, such as that provided by MONAX Globes, is not only necessary to the proper illumination of commercial buildings, but is essential to their practical purposes as well.

Specify MONAX Globes and you specify good light. They spray shadowless, adequate light *uniformly* in all directions, yet absorb scarcely any of it. Easy to clean, their recognized efficiency can always be maintained.

Our Illuminating Engineering Department will be pleased to consult with you on any lighting problem you may have on the boards. This co-operation is just one of the features of MONAX service and entails no obligation on your part.

Macbeth-Evans Glass Company

(Eastern Division)

DEPARTMENT J

CHARLEROI, PENNSYLVANIA

MONAX No. 3756—Selected for installation in the Buhl Bldg., Detroit (above), from 12 different types of glassware submitted for approval.



MONAX GLOBES

The Shadow Chasers

for Commercial Lighting

The new building of the Employers' Liability Assurance Corporation, located at Boston; Collidge, Shepley, Bullfinch & Abbott, Architect; Hixon Electric Co., Electrical Engineers and Contractors.



Holophane Filterlite — furnished with ceiling or hanging fixtures; also available in decorative luminaires of period design.



Big Insurance Companies Endorse Filterlite

INSURANCE COMPANIES make a science of protecting the health and promoting the efficiency of their employees. They also own the largest office buildings. It is doubly significant that so many large Insurance Companies use Holophane Filterlite.

For instance, the new building of the Employers' Liability Assurance Corporation in Boston is lighted with 1750 Holophane units. Of these, 1600 are Ceiling Type Holophane Filterlites of 300 watt size, and 150 are assorted other types of Holophane in the service parts of the building.

Other Insurance Companies using Holophane Filterlites are:

New York Life Insurance Company
Insurance Company of North America
Aetna Life Insurance Company

American Insurance Company
Prudential Life Insurance Company
State Mutual Life Assurance Company

The Holophane units used by these companies are made of prismatic glass, each prism shaped to direct the light exactly as needed. They give better lighting from the same current than is obtainable in any other way.

Our Engineering Department will gladly co-operate with any architect in laying out lighting installations for any job on which he is working or figuring.

HOLOPHANE COMPANY

New York and Toronto

SILVERLITE

TRADE MARK

REGISTERED



Silverlite Windows For Perfect Lighting

SILVERLITE all-metal reflectors bring window lighting to the point of efficiency. The absence of all glass from the reflector reduces light absorption to a minimum, although the luster of the pure silver reflecting surface is

equal to highly polished crystal glass.

The instantly adjustable neck on each silverlite makes possible the use of different size lamps, each in its proper focus.

Write us for complete details

I. P. FRINK Inc.

24th Street and 10th Ave., New York

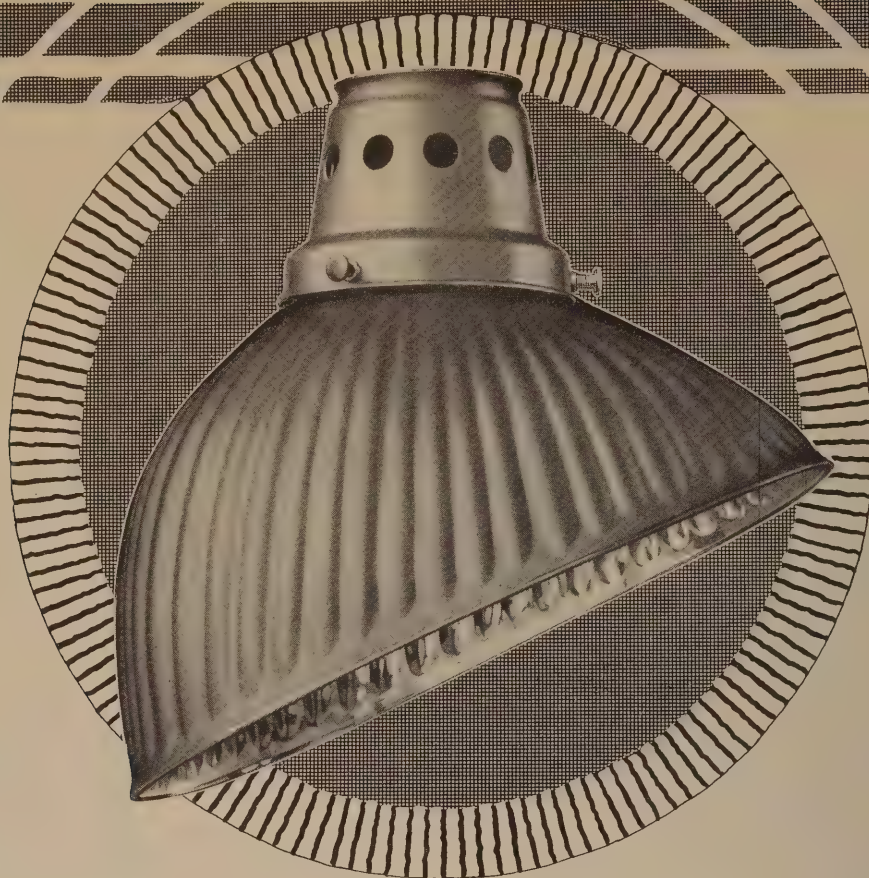
Chicago, Ill.
Boston, Mass.
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Portland, Ore.
Washington, D. C.

Seattle, Wash.
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CANADA—Associated with The Robert Mitchell Co., Ltd.
64 Belair Ave., Montreal



Specialized Lighting Service

"Pittsburgh" *Silvered* REFLECTORS **STAY BRIGHT**

PITTSBURGH REFLECTOR CO.

(Formerly Pittsburgh Reflector & Illuminating Co.)

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PITTSBURGH, PA.

BRANCHES: New York—145 West 41st St., at Broadway;
Chicago—Machinery Hall, Clinton and West
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Representatives In Principal Cities

For many years we have specialized in Cove Lighting and Show Window Lighting. This experience has resulted in a service which Architects find helpful when they have calls for such specifications.

"Pittsburgh" Reflectors represent a quality that is as definitely valuable as "Pittsburgh" service. Although guaranteed for five years, not one "Pittsburgh" Reflector made since we began using the coppering process of backing—more than nine years ago—has ever been reported to us as having the silvered reflecting surface tarnish or discolor, or the backing crack, check or peel.

Booklets covering the subjects of cove and show window lighting will be sent on request.

AGLITE

TRADE MARK REGISTERED — PATENT APPLIED FOR

Porcelain Enamel Units

Please Your Women Clients

There isn't a housewife living who wouldn't choose Aglite Porcelain Enamel Units for her home if she had the opportunity.

You can do for her what she would do for herself if she knew how appropriate Aglites are for bathrooms, kitchens, nurseries, laundries, etc. Win the lasting good will and friendship of your women clients by specifying Aglites.

There is no other unit made quite like Aglite. A patented concealed screw collar holds the shade in place eliminating all dust catching screws or projecting metal parts. Cleaning is merely a matter of wiping with a damp cloth. Aglite's permanent, porcelain enamel finish is guaranteed not to tarnish, check, peel or discolor. And we make a type suitable for every need.

Let us send you our new catalog which describes Aglites in detail. This catalog is furnished bound or loose-leaf with A. I. A. Folder. A card will bring you either immediately. No obligation.

JR234



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DESIGNERS · ENGINEERS · MANUFACTURERS

Lighting Equipment



2629 Washington Avenue

St. Louis, Mo.

BRANCH OFFICES (Sales and Service) In Principal Cities

*Built for
long, hard
usage!*



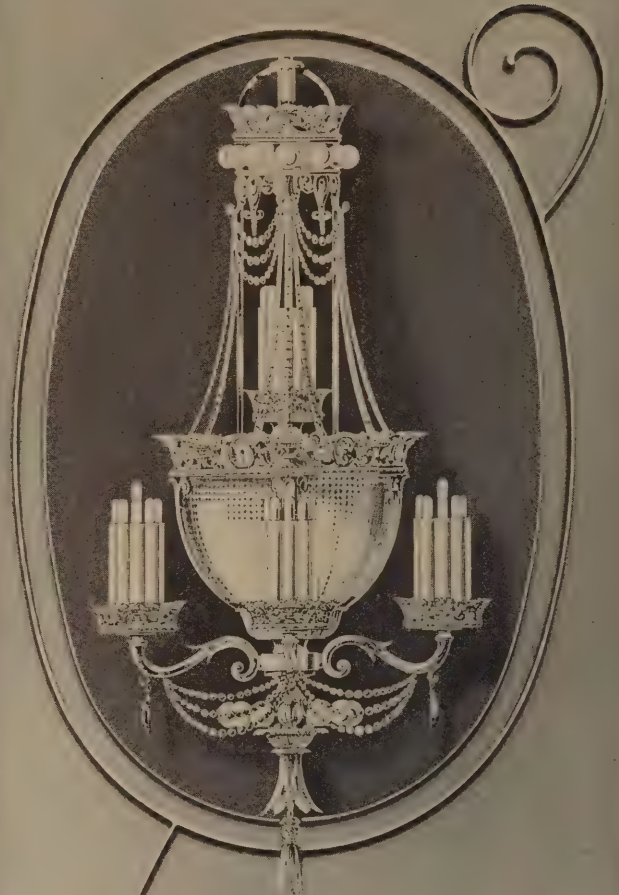
Model B, G&G
Telescopic Hoist as
installed in Ellicott
City High School,
Ellicott City, Maryland
Theo. Pietsch & W. Emory, Jr.
Baltimore, Maryland
Architects

J. H. Kinlein
General Contractor



The
G&G
Telescopic Hoist
with Automatic Gear Shifting Brake
Device and Silencer

GILLIS & GEOGHEGAN
544 West Broadway, New York



Scintillating

The sparkling beauty of
this unusual crystal piece
makes it an asset to the
most regal of chambers.
To the ball room, ban-
quet hall or theatre, the
unique lighting effect of
this luminaire will lend
a majestic brilliance.

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CHICAGO



Home of Dr. Howard Fishback, Cincinnati, Ohio, Kruckemeyer and Strong, Architects. Completely equipped with Higgin All-Metal Screens and weatherstrips.

Narrow metal frames enhance the airness of this Higgin-screened solarium.

A *livable* home—summer and winter

HOW much the livableness of home depends on proper screening and weatherstripping of doors and windows:

On summer days they must open wide to the breeze—in winter they must shut tight against the cold.

Beauty, too, must be considered. Screens and strips must be unnoticeable, and not spoil the architectural detail. Economy and satisfactory service demand durable materials and construction, and that means *All-metal*.

In successfully combining beauty, utility and durability in screening and weatherstripping, the Higgin organization has become particularly proficient through years of experience and specialization. Difficult windows, such as inswinging and outswinging casements, and odd-shaped windows that require special equipment, are easily screened and stripped the Higgin way. Many superior details of Higgin all-metal equipment are patented and exclusive with Higgin, and Higgin craftsmanship is the finest obtainable.

There is a Higgin service man in every principal city—a trained specialist who will co-operate with your staff or your clients directly, as you prefer. Higgin equipment is installed by Higgin fitters and guaranteed by the Higgin organization.

Write for blueprints showing detailing of Higgin equipment in various types of window construction.

The Higgin Manufacturing Co., Newport, Ky., Toronto, Can.



HIGGIN
ALL METAL
Screens and Weatherstrips

Service offices in all principal cities
in the United States and Canada.

Look in your telephone or city directory for the address of your local Higgin service office, or write to the home office.



The Edwards Hotel, Jackson, Miss. Screened throughout with Jersey Copper Screen Cloth, 16 Mesh, Heavy Grade. Wm. T. Nolan, New Orleans, Architect. Screens made and installed by the Enochs Lumber and Manufacturing Co., Jackson, Miss.

The Importance of One Short Word

THERE is a vast difference between *Jersey* Copper Screen Cloth and ordinary copper screen cloths. The latter are soft and pliable. *Jersey* is stiff and strong.

Only *Jersey* Copper Screen Cloth is woven from Roebling copper wire. In stiffness and tensile strength the cloth is comparable to steel.

Jersey is made of copper 99.8% pure. Hence, unlike so-called bronze cloths, every wire is uniform in composition. It cannot rust and will not disintegrate.

Jersey Copper Screen Cloth, 16 mesh, is a true

insect screen cloth. The wires are spaced uniformly and it keeps out mosquitoes and other small insects as well as flies.

Jersey is made in either bright or dark finish, but most architects prefer the latter. It is made of the same lasting pure copper as the former but does not go through any weathering process. It is as nearly invisible as a screen cloth can be and stays that way.

Samples, which you may test for yourself, will be sent on request. No annoying sales efforts will follow.

Trenton

THE NEW JERSEY WIRE CLOTH COMPANY
616 South Broad Street

New Jersey

All Grades of Wire Cloth Made of All Kinds of Wire

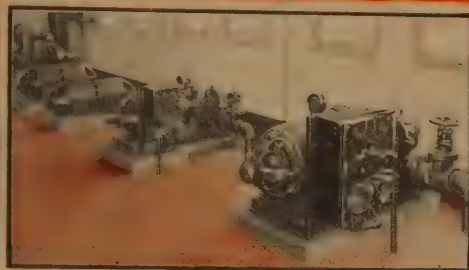
JERSEY

Copper Screen Cloth

Made of Copper 99.8 % Pure



At the Broadmoor Hotel in Colorado Springs, as in other famous buildings, dependable water supply is assured by F-M Pumps



The battery of Fairbanks-Morse Centrifugals installed at the Broadmoor Hotel, Colorado Springs, is shown opposite

FOR larger buildings Fairbanks-Morse offers not only a complete range of quality pumping equipment, but—still more important—a comprehensive service that is the outgrowth of highly diversified experience in the construction field.

Since the Fairbanks-Morse line includes equipment of practically every kind, Fairbanks-Morse recommendations are wholly unprejudiced and are necessarily based on the fundamental considerations of maximum satisfaction and economy.

The scope of Fairbanks-Morse service is explained in greater detail on the next page

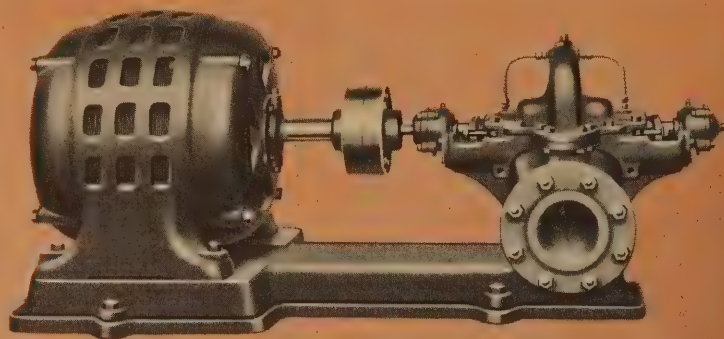
FAIRBANKS-MORSE

PUMPS · DIESEL ENGINES · MOTORS

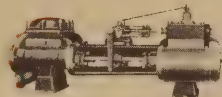
Complete pumping equipment for buildings



In this Fairbanks-Morse pumping unit, both motor and pump are equipped with ball bearings. Equally advanced design and construction is represented in all other details



Fairbanks-Morse Duplex Piston Steam Pump—representative of the wide line of reciprocating pumps



A service that makes the layout justify the outlay

From the time plans are taking shape until the pumping installation is in operation, Fairbanks-Morse engineers are ready and qualified to share the architect's responsibility.

Regardless of the nature of the pumping—regardless of the form of drive or source of water supply—the problem will in all probability merely suggest a parallel that has already been effectively solved by Fairbanks-Morse pumping units, installed in accordance with the recommendations of Fairbanks-Morse engineers.

The Fairbanks-Morse line includes single and multi-stage centrifugals of practically all types, either for belt drive or direct-driven by Fairbanks-Morse motors; also steam pumps and power pumps of all accepted patterns. This complete line of pumps is giving faultless service under every condition encountered in building application:

General water service
Hot water supply
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Mail the coupon for the comprehensive book, "Pumps for Buildings." It covers the range of Fairbanks-Morse equipment and the breadth of Fairbanks-Morse experience in the building field.

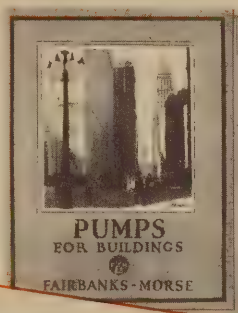
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28 branches throughout the United States at your service

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PUMPS · DIESEL ENGINES · MOTORS

complete pumping equipment for buildings

A 908



Fairbanks, Morse & Co.
900 S. Wabash Avenue, Chicago, Ill.
Please send me a copy of the forty-eight page book, "Pumps for Buildings." Also information on the F-M equipment checked below.

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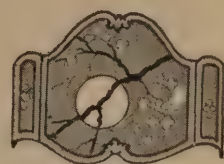
Electrical Fixtures and Outlets of KAROLITH

to harmonize with the color schemes of all rooms

GIVE that last ounce of effectiveness to your interiors by specifying that all electrical outlets, fixtures and appliances be made of KAROLITH, in the harmonizing color, finish and style. Colors and finishes are permanent. Untarnishable and washable. Non-fading, non-inflammable and non-breakable. Resistant to heat, electricity, acid, and moisture. In translucent form, a perfect substitute for glass. Always the most economical material. Just a few of its uses are illustrated below; let us show you more.

If your electrical contractor is not familiar with KAROLITH, ask him to get in touch with us. Our laboratories are always at your disposal.

KAROLITH CORPORATION
189-207 Thirteenth Street : : Long Island City, N. Y.



Shields of translucent KAROLITH in sconce fixtures introduce a contrast or variant, as desired.

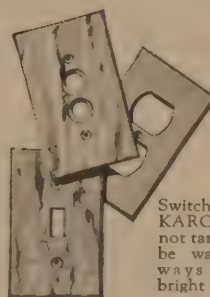
Ornamental wall plates with KAROLITH reflector panels add a touch of distinction to sconce fixtures.



Before you specify shades of silk, parchment, or glass, see a display of KAROLITH shades. A new glowing luminosity.

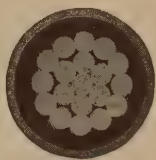


Whenever lamps are to be specified, KAROLITH gives you an opportunity to choose lamps that might easily have been "made just for the room".



Switch plates of KAROLITH do not tarnish, can be washed, always look as bright as when new.





SIMPLEX WIRES AND CABLES

SIMCORE - National Electrical Code Standard. Every length is subjected to searching electrical tests to insure a first quality product. Ask for specifications.

CAOUTCHOUC - "B. C." A rubber covered braided wire insulated with a 30% Para compound. Send for specifications.

LEAD COVERED CABLES AND WIRES - For under-ground distribution where a conduit system is used.

STEEL TAPED CABLE - Used where a conduit system is not available. It carries its own conduit. Descriptive booklet upon request.

CONDEX PARK CABLE - Adequately insulated and protected by an overlapping, interlocking flexible steel conduit. For series lighting circuits.

OVERHEAD SERVICE CABLE - Designed for use between pole and house where service is not carried underground.

FIBREX OVERHEAD SERVICE CABLE - For aerial service connection from pole to house when service must pass through trees.

FIBREX TREE WIRE - For installation among trees or where chafing may occur. It is non-inductive. Send for circular.

FIBREX FIRE ALARM CABLE - Consists of a multiple conductor cable protected with the abrasion resisting fiber tape which protects FIBREX Tree Wire and FIBREX Overhead Service Cable.

SUBMARINE CABLES - For power transmission or for telephone or telegraph service. Our engineering department is always available for consultation.

SIGNAL CABLE - Dependable insulated cable for railway signals and police or fire alarm service.

IGNITION WIRES - Used extensively, and with satisfaction throughout the automotive field.

TIREX PORTABLE CORD - For electrical tools and appliances. Rubber-armored. Flexible. It cannot kink, and has the wearing qualities of an automobile tire.

TIREX SJ CORD - A rubber armored cord for drop lights or table lamps; made in colors. Send for folder.

TIREX MINING MACHINE CABLES - Heavily insulated, rubber-armored, portable cables with the wearing qualities of a cord tire.

POLE FIXTURE CABLE - For wiring from the base of ornamental lighting standards to the lamp fixture at the top or from line to lamp on goose neck fixtures.

ARC CABLE - For connecting swinging arc lamps with transmission lines.

AUTOMOBILE - Wires and cables for lighting and ignition systems.

RUBBER INSULATED CABLES - For any commercial voltage. Special descriptive bulletin on request.

CAMBRIC INSULATED CABLES - For power transmission service, submarine, underground or aerial. Special bulletin on request.

PAPER INSULATED CABLES - For high voltage power transmission. Descriptive bulletin upon request.

SPECIAL INSULATED WIRES AND CABLES - To meet any conditions of service. On specification drawn by our engineers or to conform to customers' specifications.

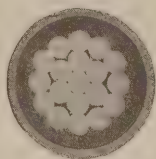
Technically trained experts who know how to impart the qualities which insure satisfactory service supervise the manufacture of all Simplex Wires and Cables.

SIMPLEX WIRE & CABLE CO

MANUFACTURERS

201 DEVONSHIRE ST., BOSTON

CHICAGO SAN FRANCISCO NEW YORK



Sacred Heart Seminary, Detroit, Mich.



Put the BULL-DOG on your Pay-roll

A Billion Dollars Worth of Modern Structures

If you asked us for direct proof of the practicability and economy of the Bull Dog method of anchoring wood floors to concrete, we could refer you to some of the finest buildings in America. Office buildings, schools, apartments, hotels—models of architectural genius and representing an investment of more than a billion dollars—have been built better and more economically during the past few years with Bull Dog Floor Clips.

Have you a copy of "Six Quick Steps"? It shows exactly how much you save by using the Bull Dog method of floor anchorage. Ask for it and for samples of Bull Dog Floor Clips.

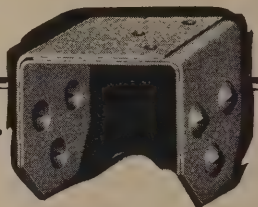
Bull Dog Floor Clip Co.

WINTERSET, IOWA

90 Branch Sales Offices

15 Convenient Distributing Points

BULL DOG Floor Clips



Ask Your Workmen

WE'RE perfectly willing to abide by the verdict of your men. Let them use a dozen or more Grinnell Adjustable Hangers on any type of piping installations. See if they don't agree that these sturdy, easy-to-use hangers enable them to make quicker headway and produce a better looking, more satisfactory job.

We, ourselves, have used many millions of these hangers and our cost sheets tell a story of labor-savings that makes mighty agreeable reading. More than 75 types of Grinnell Hangers provide for practically every condition encountered in pipe installation work.

WRITE for the 285 page illustrated Hanger catalogue. If your jobber isn't stocked with Grinnell Hangers write for the name of the nearest distributor. Address Grinnell Co., Inc., 302 W. Exchange St., Providence, R. I.



Use a
dozen
and see why
we've used
a dozen
million

GRINNELL ADJUSTABLE PIPE HANGERS



The Brooklyn factory of E. R. Squibbs & Sons, an Atlantic Installation. Mr. Shirley Morgan, Architect; Russell G. Cory, Electrical Engineer; Oberg, Blumberg & Blyer, Electrical Contractors.

Wiring to Maintain Production

To the factory owner maintenance costs are important. Yet far more important is the rapidity with which costs mount when the production schedule is interrupted. And because of this the design and specifications for the electrical wiring system of a factory take on added importance in the eyes of the architect.

In the Brooklyn factory of E. R. Squibbs & Sons, this desire to keep production interruptions and maintenance costs at a minimum, led to the selection of Atlantic Wires and Cables throughout the building.

There was ample precedent for the choice. Although backed by more than a



A three-year-old sample of Atlantic "Neptune" wire exceeding the established minimum requirement of:
10" Elongation
1000 lbs. Tensile strength per square inch.
Atlantic Insulation is compounded to give it remarkable aging qualities.

quarter of a century of research and improvement—installed in hundreds of other industrial structures—and built to one of the most exacting wire and cable specifications ever drawn—Atlantic "Triton," "Neptune," and "Dolphin" grades cost *no more* than corresponding brands of less dependability.

Many of America's leading architects and specifying engineers stand ready to testify to the quality of Atlantic Wires.

An opportunity to submit detailed specifications, samples for your inspection, or to assist you in connection with your standard wire and cable specifications will be welcomed.

ATLANTIC INSULATED WIRE & CABLE CO., ROME, N. Y.

2564

ATLANTIC

INSULATED WIRES AND CABLES

INDEPENDENT SCHOOL DISTRICT No. 27

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ST. LOUIS COUNTY

HIBBING, MINN.

October 26, 1925.

Franklyn R. Muller, Inc.,
Waukegan, Illinois.

Gentlemen:-

With reference to your ASBESTONE Flooring which was installed in the Hibbing High School in 1922.

We have approximately 200,000 square feet of this flooring in classrooms and corridors. It has given entire satisfaction, and there is no sign of wear after three years of hard usage. The maintenance cost is negligible, as it is only necessary to wax these floors twice year year.

It may be of interest to know that more than 15,000 tourists inspected this building between June 1st and September 15th of this year. We have received many high compliments on the appearance of these floors.

We would most certainly specify ASBESTONE Flooring for any of our future school buildings, and if at any time we can be of service in recommending this product, do not hesitate to call on us. We cannot praise it too highly.

Yours very truly,

INDEPENDENT SCHOOL DISTRICT NO. 27

By B. A. Middlemiss.
Clerk.

JAV/RAC

"U. S." TILE FLOORING



"U. S." Tile Floors complete the beautiful interiors of Finchley's.

THERE are few more interesting and striking examples of the adaptation of period design to modern store architecture than the new home of Finchley's, one of New York's smartest Fifth Avenue shops for men.

This distinctive Tudor building presented an unusually interesting floor problem, which was satisfactorily solved with "U. S." Tile. The architect was able to choose from the wide range of color combinations available precisely the decorative effects which were necessary to harmonize with his interior decoration plans.

"U. S." Tile, made from the finest rubber, covers a wide selection of decorative and plain colorings. It is exceptionally durable, comfortably resilient, sanitary, easily cleaned, and noiseless.

Avail yourself of the services of our interior decoration advisors—when you are considering flooring specifications.

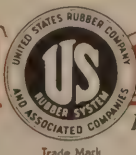


United States Rubber Company

Flooring Department

1790 Broadway

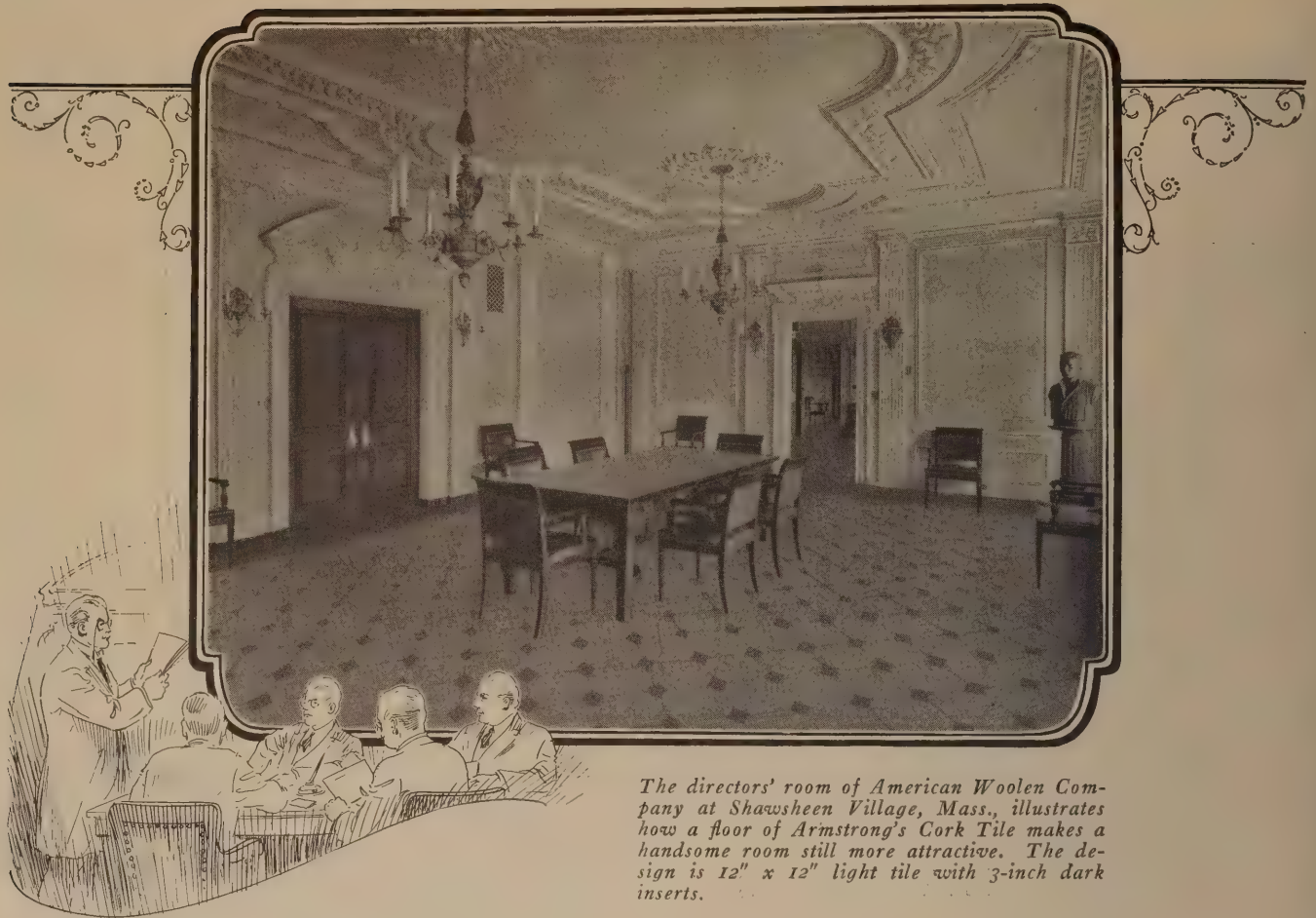
New York City



Manufacturers of

Rubber Flooring since 1897





The directors' room of American Woolen Company at Shawshoen Village, Mass., illustrates how a floor of Armstrong's Cork Tile makes a handsome room still more attractive. The design is 12" x 12" light tile with 3-inch dark inserts.

SOME OTHER TYPICAL
INSTALLATIONS OF
ARMSTRONG'S
CORK TILE FLOORS

Fulton National Bank,
Atlanta, Ga.
Liberty Savings & Trust Co.,
Chicago, Ill.
Huntington Drug Co.,
Huntington, W. Va.
Union Trust Co., City Bldg.
Branch,
Cincinnati, Ohio
Louisville Store Fixture Co.,
Louisville, Ky.
Inter-Southern Life Ins. Co.,
Louisville, Ky.
Staten Island Savings Bank,
Staten Island, N. Y.
Bank of Detroit,
Detroit, Mich.
Federal Reserve Bank,
Dallas, Texas.
Kansas City Club,
Kansas City, Mo.
Luick Ice Cream Co.,
Milwaukee, Wis.
Guardian Trust & Savings Co.,
Cleveland, Ohio.
Bank of Asia,
San Francisco, Calif.

When Architects Choose Business Floors

MEN like the substantial, dignified appearance of tile floors in their business quarters, but they also want floors that are comfortable and quiet. That is why so many architects are specifying Armstrong's Cork Tile for offices and directors' rooms—it meets both requirements.

Armstrong's Cork Tile has all the distinctiveness of floors laid with separate tiles. Diversity of design and variations in shading and surface texture give the floor an individuality not attainable with the more commonly used materials.

As for comfort and quietness, these are inherent in the cork itself. Armstrong's Cork Tile is not a composition, but clean cork curlings compressed into tile form without any binder other than the natural gum of the cork-wood. Armstrong's Cork Tile is a tough, wear-resisting material, not readily marred or stained, and is easily kept clean. It requires no polishing or varnishing. Years of service leave hardly a trace of wear.

Write for a sample tile and the book, "Armstrong's Cork Tile Floors." They will be sent you promptly on request.

ARMSTRONG CORK & INSULATION COMPANY

Division of Armstrong Cork Company
132 TWENTY-FOURTH STREET, PITTSBURGH, PA.
Also manufacturers of Linotile Floors

Linotile Floors



In the living room of Mr. A. R. Griswold's roof bungalow apartment, at 16 Park Avenue, New York. Floor of GOLD SEAL INLAID in warm browns and tans (Belflor Pattern No. 2047-3).

CLEVER idea—choosing a rather formal tile floor for this “homey” living room! Everyone admires how the rich colorings of the tiles combine with, and set off, the furnishings: the Oriental rugs, the maple Colonial furniture, the splash of quaint patchwork on the chair-back and the rambling pattern on the hangings.

Why *not* start with the floors? Many architects and interior decorators make the floor the keynote for the whole decorative plan—

in living rooms, dining rooms, sleeping rooms and service quarters. This means, of course, that they must have at command a great variety of designs and color combinations.

Small wonder, then, that America's leading home-builders are turning more and more frequently to Nairn *Gold Seal Inlaids*. Ask to see full size patterns and “quality samples.”

CONGOLEUM-NAIRN INC.

Philadelphia
Kansas City
Cleveland

New York
San Francisco
Dallas

Boston
Atlanta
Pittsburgh

Chicago
Minneapolis
New Orleans

NAIRN GOLD SEAL INLAIDS



Where should NORTON FLOORS be used?

The new Y. W. C. A. Building Worcester, Mass. Frost, Chamberlain & Edwards, *Architects*. Alundum Aggregate Tiles and Treads in the entrance and lobby and on all stairways.



NORTON FLOORS are not just another brand of tiles and treads and recommended for use anywhere and everywhere. NORTON FLOORS were designed and developed for a specific purpose—to meet a definite need. They are for use wherever there is a slipping hazard and wherever traffic is exceptionally severe—for floors, stairs, ramps and entrances in schools, railroad and subway stations, office buildings, department stores, hotels, hospitals, industrial plants and other public and business buildings.

The distinctive feature of NORTON FLOORS is the use of the electric furnace abrasive, Alundum. It is this hard, tough abrasive that gives them their non-slip and wear-resisting characteristics.

NORTON COMPANY, WORCESTER, MASS.

NEW YORK

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PHILADELPHIA

PITTSBURGH

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NORTON FLOORS
Alundum Tiles, Treads and Aggregates

T 158

COLORMIX

"The most remarkable demonstration of a floor for exterior use that I have ever seen or heard of"

"I had not been anticipated that your material would produce a floor superior to any other dancing floor I have ever seen, which has been the case. This entire area of about 10,000 square feet is exposed to the elements and used as a roof for the lower part of the building."

"It is quite common to see a thousand people dancing on the terrace. The floor,

after a few months use, has become so polished that you get a reflection as you would in highly polished marble."

"I saw a thousand people dancing on this floor last week ten minutes after a heavy rain storm, without any inconvenience whatever, the floor having been exposed to the elements during the entire storm. In fact, it is never covered no matter what the condition of the weather."

THE MASTER BUILDERS COMPANY, Cleveland, Ohio

Sales Offices in Ninety Cities

Factories at: Cleveland, Irvington, N.J. and Granville, N.Y.

Congressional Country Club, Washington, D. C.
Mr. Philip M. Jullien, Architect.

The copy for this advertisement is quoted from a letter written by the architect.



THE HEINZ ROOFING TILE COMPANY

Terra Cotta Roofing Tiles

Office and Factory—Denver, Colorado

Eastern Office—G. E. Hardie—Room 915, 101 Park Ave., N. Y. City



PLYMOUTH SHINGLE

Duplication of "Old English," in color, shape and texture.

Laid up on 5, 4½ and 4" vertical exposures.

In light, medium and dark "Antique" shades.

The hand roughened and sanded face texture, in the Antique shades, produces a time-worn, soft effect.

A 200-year-old tile right out of our factory. Butts, cut irregularly, same color as faces. A percentage of the tiles made "off size," to break up regularity in application.

Stretcher tiles for "double eaves" and "ridge courses." These tiles are an artistic product and should be applied by men having knowledge of the purpose intended.

No. 1—PLYMOUTH SHINGLE
Size: 6½ x 11 to 12 x ¾" thick

Expo.	Pes. to sq.	Wgt. to sq.
5"	443	1100 lb.
4½"	490	1200 lb.
4"	554	1350 lb.



DERBY SHINGLE

In French graduated color range.

Three shades each of Dull Black, Burgundy, Red and Salmon.

Wire cut face textures.

Laid up on 5, 4½ and 4" vertical exposures.

Hip and ridge trim, if any, straight barrel or tapered roll.

Stretcher tiles for "double eaves" and "ridge courses."

In a graduated color range, a beautiful roof is produced by buttering all or a large proportion of the butts with Portland cement mortar.

The range of colors and the proportion of each are subject to the architect's selection.

No. 2—DERBY SHINGLE
Size: 7¾ x 12 x ½" thick

Expo.	Pes. to sq.	Wgt. to sq.
5"	373	1100 lb.
4½"	413	1200 lb.
4"	465	1350 lb.

Our 5 Special Shapes

The tiles shown have been specified for various important buildings by many architects, among them the following practitioners:

Franklin Abbott
Dwight James Baum
G. H. Chamberlin
Day & Klauder
Cass Gilbert
Jackson, Robertson & Adams
H. T. Lindeberg
Magaziner, Eberhard & Harris
H. M. Polhemus
Prentice Sanger
Frederick Sterner
D. Everett Waid

DUTCH COLONIAL

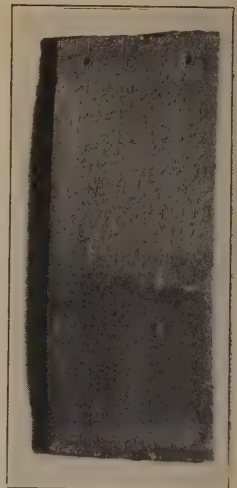
A long, heavy square butt tile, in true harmony with Dutch Colonial lines of architecture.

In graduated color range, three shades each of Dull Black, Lighter Antique, Burgundy, Red and Salmon. Face texture, wire cut or sanded.

Laid up on 9, 8 and 7" vertical exposures. A waterproof felt roof must be laid under these tiles. Stretcher tiles for "double eaves" and "ridge courses."

A percentage of the tiles made "off size" and the butts cut a shade "off shape," but all maintaining the general idea of regularity.

Expo.	Pes. to sq.	Wgt. to sq.
9"	229	1290 lb.
8"	258	1450 lb.
7"	294	1650 lb.



No. 4—DUTCH COLONIAL
Size: 7 x 16 x ¾" thick

MISSION

In variegated colors, three shades each of Dull Black, Lighter Antique, Burgundy, Red, Straw, Gray, Blue and Green. Random lengths, so made at the factory before coloring or burning. Butts irregular, also so cut at the factory. Hip and ridge trim, straight barrel or tapered roll. Face textures, light or heavy hand roughened, granulated or smooth.

In a variegated field of "Typical Italian" colors, a beautiful roof is obtained by bedding all or a large proportion of the butts in Portland cement mortar—this will bring out the color scheme and also kick up the tiles unevenly. If, in the application, the courses are allowed to swerve slightly to right and left, the result will be the elimination of all vertical and horizontal lines and even surfaces.

For the lighter shades in a roof field, we offer our Light Burgundy, light Reds and Light Straw.

Expo., Random	Pes. to sq.,
Wgt. to sq.,	220 lb.



No. 5—MISSION
Size 8" x random x ½" thick

ZOAR

Duplication of original "Holland" Zoar.

Hand-fluted face texture.

Laid up on 9, 8 and 7" vertical exposures.

Butts, random cut, half round, elliptical and segmental—all slightly "off shape."

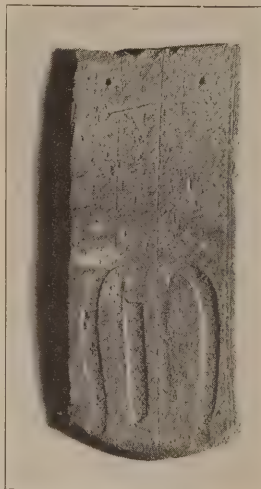
In graduated shades of Antiques and Reds.

A waterproof felt roof must be laid under these tiles.

The long exposure, fluted faces and the color shades combine to produce the beauty in a roof of these tiles.

A percentage of the tiles made "off size" to avoid regular lines.

Expo.	Pes. to sq.	Wgt. to sq.
9"	229	1290 lb.
8"	258	1450 lb.
7"	294	1650 lb.



No. 3—ZOAR
Size: 7 x 16 x ¾" thick

NOTE: All weights and sizes are close approximates.

NOTE: We estimate from plans, quoting a lump sum for all tiles and trim to complete the roof—f. o. b. destination. We take all responsibilities for quantities.

*We advertise this way
to your clients* —

in Saturday Evening Post, Jan. 2, 1926



*“--- but that morning
he hated to open the door”*

General Manager Bullock wasn't an ogre. And Roberts, the Plant Engineer, was no mouse. Ordinarily, Roberts would have swung that door wide, with matter-of-fact confidence. But today his fingers stuttered on the knob—because of the memo he was obliged to lay before the G. M. This message read:

“Roof on Warehouse No. 3 leaking badly. Need more men to save stock.” (And that roof was new five years ago!)

* * * *

Two weeks later that warehouse was re-roofed. And this time, logically enough, they specified a Barrett Specification Roof.

For when a building is covered with a Barrett Specification Roof the owner receives a Surety Bond. This bond absolutely guarantees him against any expense for repairs or maintenance for a full 20 years—until 1946. In addition—

Many Barrett Roofs of this type built 35, even 45, years ago are still giving sturdy weather-tight protection—and not one cent spent for repairs or maintenance.

Interested? Then dictate a brief note to The Built-up Roof Department of The Barrett Company, 40 Rector Street, New York City. Full information regarding The Barrett Specification Roof will be mailed to you—promptly.

Barrett
SPECIFICATION
ROOFS

*— and here's your side
of this roof thing
(as other architects see it)*

Within the last few months we've asked a number of architects:

“Why do you specify Barrett Specification Roofs? What points about them interest you most?”

In the minds of these men these things loomed big—important!

1. No supervision by the architect is necessary to see that quantity and quality of materials are right. The Barrett Specification prescribes exactly the number of layers of Specification Felt, the amount of Specification Pitch, the top coat of pitch poured (not mopped) and finally the wearing surface of firmly embedded gravel or slag.

2. No supervision by the architect is necessary to make sure that a dependable man is laying the roof. The man who lays the roof must have earned a name for dependability. Only such men can qualify to lay a Barrett Specification Roof—can obtain a Bond for the owner.

3. No supervision by the architect is necessary to be sure that his client gets a roof in which every detail of material and construction is exactly according to a specification universally recognized as 100% right. Highly trained Barrett technical men are on the job while the roof is being laid to see that The Barrett Specification is followed in every detail.

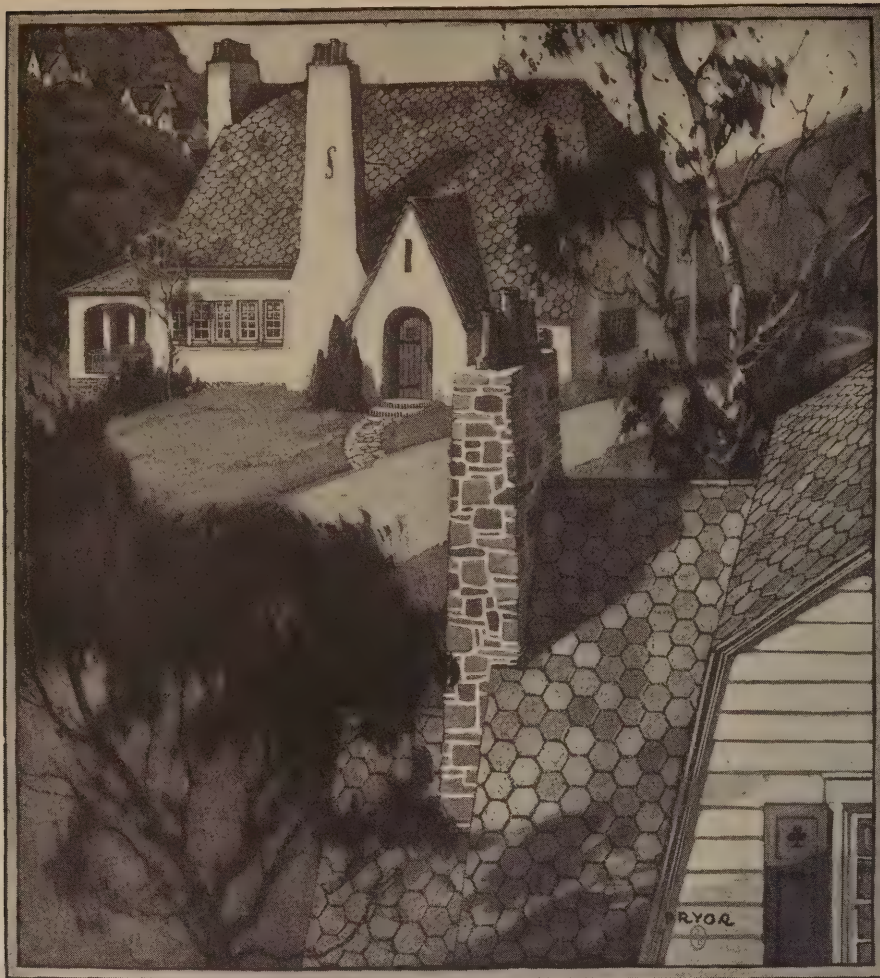
4. Finally, a Barrett Specification Roof takes the base rate of fire insurance.

Send for your copies of our Architects' and Engineers' Built-up Roofing Reference Series.

THE BARRETT COMPANY
40 Rector Street, New York City

IN CANADA:

The Barrett Company, Limited
2021 St. Hubert Street, Montreal, Quebec, Canada



A distinctive roof makes a distinctive house

PRESTON SHINGLES add a pleasing note of individuality to any pitched roof whether a house is simple or pretentious. The natural colors of Preston Shingles are extremely attractive and harmonize with any type of architecture.

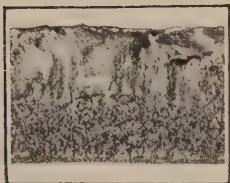
An added note of distinction is given by the Hexo-Diamond design—a pattern which makes a series of uniform hexagons. These shingles are self-spacing.

Preston Shingles are made in three weights: Heavy Standard, Extra Heavy and Massive, and besides the Sunset shade in three colors: Green, Blue-black and Red.

The "Massive" weight is approximately one-third thicker than a Standard No. 1 slate shingle and is much thicker than any other slate surfaced asphalt shingle on the market. Architects have welcomed a thickness that would create the shadow line necessary for high grade work.


Write us today for the book, "The Magic Touch of Preston Shingles." At the same time we will give you the name of a dealer who can supply you.

KEYSTONE ROOFING MANUFACTURING COMPANY,
Dept. D13, York, Pennsylvania



Microscopic Enlargement

THE wearing qualities of Preston Shingles are dependent not only on the quality but also on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable wearing qualities.

Preston  **ROOFING**

HYDREX

Double-layer ROOFING FELT

HYDREX double-layer roofing felt is manufactured especially for use where Slate or Tile is specified for the roofing. "Hydrex" consists of two sheets of saturated felt with the top surface coated; between the felt there is a layer of flexible asphaltic

compound. This compound tenaciously hugs the nails so that water-tightness is absolutely assured.

Hydrex Double-Layer Roofing Felt is also used as insulation under tin and copper, either on roof or siding, and as a water-tight floor inter-lining.

Hydrex Waterproof Building Paper

This Building Paper gives that resistance to dampness and wind penetration so essential in small house construction. It is applied under clapboard,

shingle, stucco, slate and tile. Hydrex Building Paper is saturated, and coated on both sides, with oils and bitumen, and contains no acid or tar.



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Penrhyn Stone is produced by skilled craftsmen and quarried, split and trimmed entirely by hand into such sizes and thicknesses that each individual roof requires as determined by a study of the Architects' plans.

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suggestions based on any plans submitted.*

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PRODUCERS OF HIGHEST QUALITY
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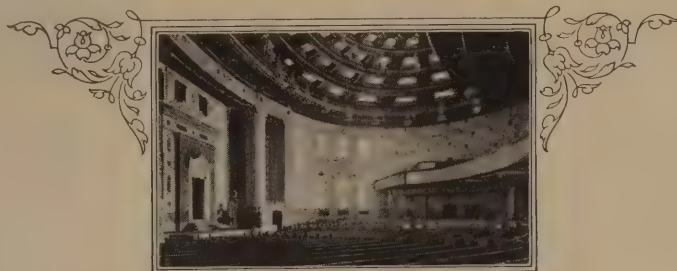
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CLOSE COOPERATION between architect and acoustical engineer permits a greater freedom in design without risk of acoustical defects which might mar the perfection of the finished building.

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136 fewer shingles,
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 per square.

Shingles are self-
 spacing and 60
 lbs. heavier per
 square.



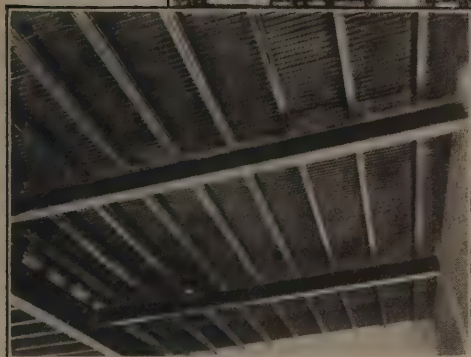
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INSULATED ROOFS



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The furnace in a building has done its job when it puts heat in the rooms. It is the duty of the roof to keep the heat in. Thousands of dollars are wasted annually by roofs that are not heat retaining.

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This is one of a series of advertisements taking you behind the scenes in the manufacture of PIX Equipment.

Our Book BH90—"Kitchen Installations"—is of interest to every operator and architect. It describes and illustrates many types of kitchens and the latest, most improved equipment. Typical floor plans are included. A copy will be sent on request. No obligation whatever.

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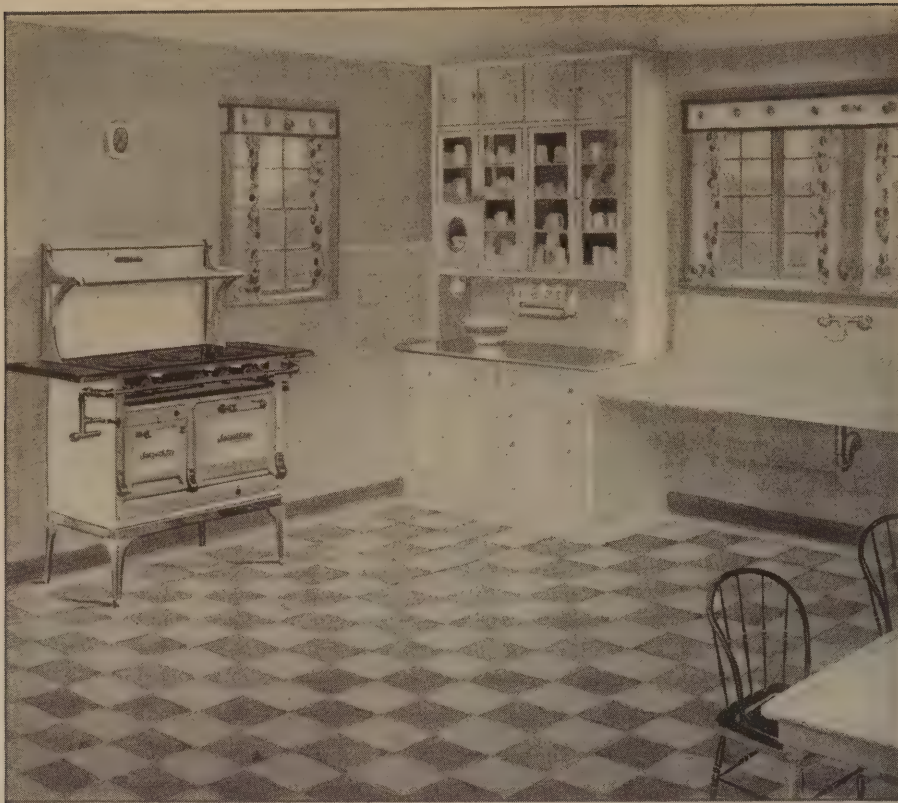
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Counter Built in at One Time!



BUILDING FOR PERMANENCE

One part of the "half mile of counter" in production when this photograph was made. This represents part of a 520 ft. lunch counter for the Crowley-Milner Company of Detroit. An 80 ft. counter for an employee's cafeteria was in work in another section of the shop.



A New-Style Kitchen as arranged by Leland Lyon—Architect

It Has Inspired a NEW STYLE KITCHEN

ALREADY, in the best homes and apartment houses, architects are installing them—these New Style Kitchens. Gone, at last, is the clumsy, space-consuming, old-fashioned gas range. In its place, stands now a new table-top style—the new Smoothtop Gas Range.

Encouraged, inspired, by Smoothtop's console lines, architects saw, at once, the possibilities for a new kitchen style. And the result? Today these New Style Kitchens are doing far more than the kitchen's share to rent fine apartments and sell smart homes.

The new Smoothtop provides 50% more cooking-surface — yet requires much less floor space. It projects far less into the room—cuts off no light.

Planning, spac-

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Nor is that all—(and this point is winning the women-folk) — Smoothtop's Super Vulcan burners produce the hottest, steadiest gas flame known. Each burner provides four different zones of heat—each keeps four vessels boiling, all at the same time. The top is entirely enclosed. No tilting, tipping pots. A whole meal may be cooked over a single burner—at the one time. An entirely new cookery as well as an entirely new kitchen style is created by the new Smoothtop Gas Range.

Continuous demonstrations, to which architects are especially invited, are in progress at our showrooms. Or, write for descriptive literature to Standard

Gas Equipment Corporation, 18 East 41st Street, New York City.

Smoothtop
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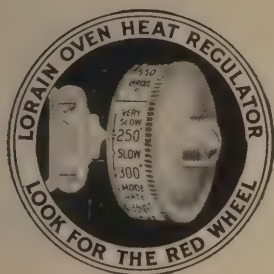
GAS RANGE

WITH SUPER VULCAN BURNERS

There is only one Smoothtop, a Vulcan product. It is fully protected by patents in U. S., Canada and Great Britain. Standard Gas Equipment Corp.—Vulcan Division



Apartment Building at 44-46 Genesee Street, Geneva, N. Y. Architect, Mr. L. P. Adams, Geneva. Owner and Builder, Mr. A. F. Boisvert, Geneva. Kitchens throughout are equipped with Direct Action Gas Ranges with Lorain Oven Heat Regulators. Typical stove installation is shown in view at right.



One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.

Unless the Regulator has a RED WHEEL it is NOT a LORAIN

The Lorain Oven Heat Regulator insures perfect baking-results every time. It enables the housewife to cook Whole Meals in the oven at one time while she is away.

It's Women Who Rent Apartment-homes!

MORE and more architects and builders are specifying Gas Ranges with Lorain Self-regulating Ovens for new houses and apartments. They realize that it's ultimately the woman who passes judgement upon the desirability of these buildings as living places.

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These famous gas ranges have Lorain Self-regulating Ovens: New Process, Direct Action, Clark Jewel, Quick Meal, Reliable and Dangler.

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Thompson-Starrett Co., Contractors

A Wire Glass installation from the
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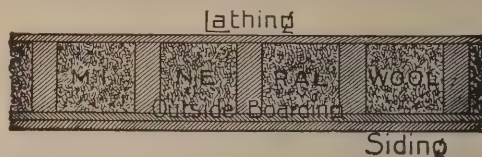
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Between Studding

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Mineral Wool has superseded all other materials used for similar building purposes because it does "a great work at little expense." A house lined with Mineral Wool has an indestructible, fire-proof and vermin-proof guard; it protects the entire household. In the winter time it keeps the cold air out, facilitating proper heating and economy in fuel. In the summer it keeps the heat out.

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(Patented)

Cloth-Lined Metal Weatherstrip



The Blackstone—Chicago



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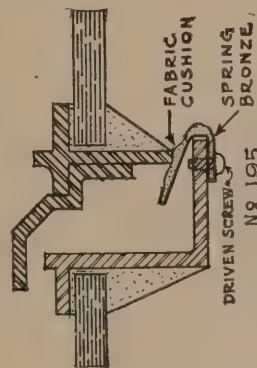
Proved so satisfactory in The Blackstone that Marshall & Fox also used them in the Edgewater Beach and Drake Hotels

In 1909 Athey Cloth-Lined Metal Weatherstrip was installed in the Blackstone Hotel. It proved so satisfactory that in 1916 the same architects specified it for the Edgewater Beach Hotel—then in 1920 for the magnificent Drake Hotel.

The special features which caused Athey to be selected for these fine buildings were: First, the **coal saving**, due to the elimination of drafts; Second, the **elimination of dust and soot** which cause such havoc with decorations and draperies.

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Sketch shows Athey Cloth-Lined Metal Weatherstrip for drawn steel windows. Notice the **cloth and spring bronze contact**. Athey is the **only** cloth-lined metal weatherstrip made, and experience has proved that a cloth-to-metal contact is the only one that actually "seals" the windows without making them stick.



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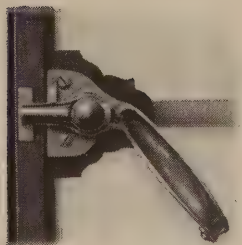
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No longer need architects forego the use of steel casements because the custom-built product is too expensive and the standard product too cheap. There are now available substantial steel casements of finished workmanship at remarkably low cost.

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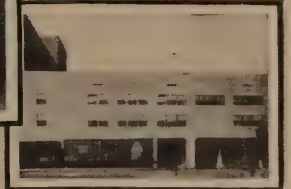
1



2

Sears Roebuck Buildings:—1 and 2—Chicago, Ill. Retail Stores, North and South Sides, 3—Warehouse and Retail Store, Dallas, Texas, 4 and 5 Administration Building, Kansas City, Mo. 1, 2, 3, 4 and 5, Geo. C. Nimmons Co., Architects. 1, 2, 4 and 5, B.W. Construction Co., Contractors. 3, Hughes O'Rourke, Contractors.

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Lupton Casements contribute much to the sylvan charm of this cottage

Here Lupton Casements give abundant daylight as well as dignity of appearance



To certain styles of architecture, Lupton Casements are better suited than any other windows



Lupton Casements may readily be used in any type of construction

Casements

ANY type of house can have the beauty and convenience afforded by Lupton copper-steel Casements. With 48 standard sizes to choose from, you can employ just the window treatment you wish, and still hold down the cost.

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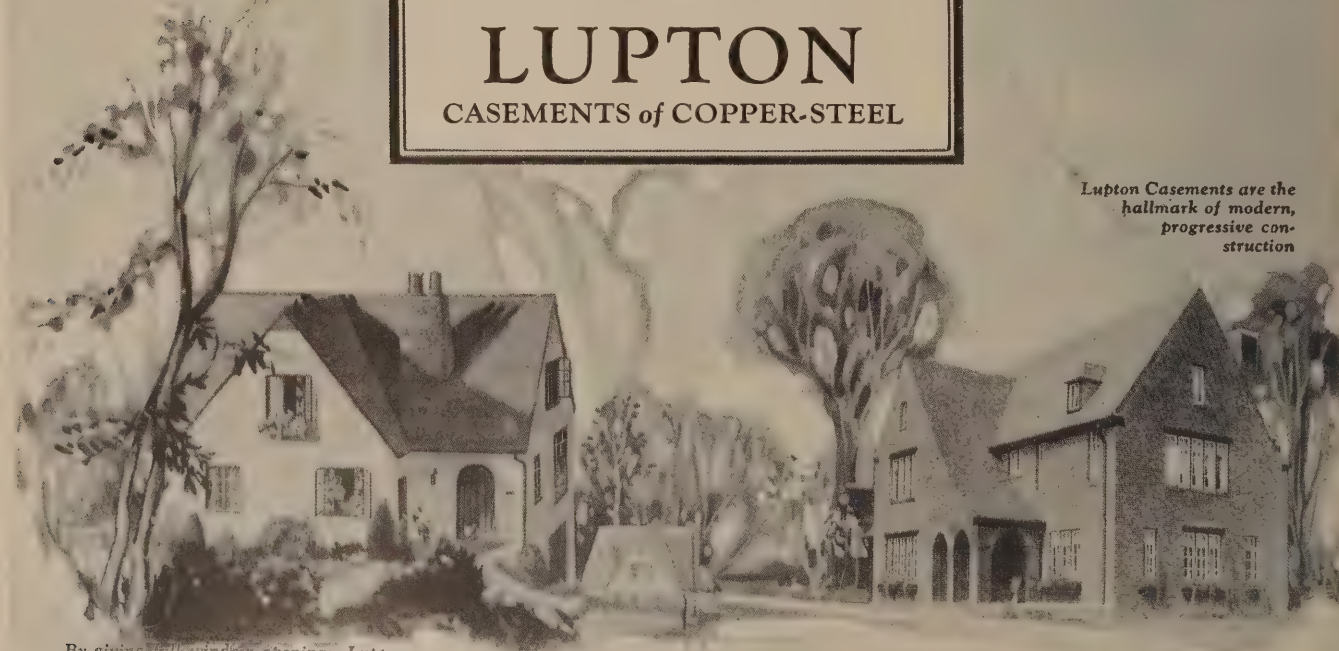


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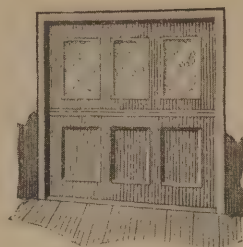
CASEMENTS of COPPER-STEEL



By giving full window openings, Lupton Casements here make a really small dwelling seem spacious

Lupton Casements are the hallmark of modern, progressive construction

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Panelled Door,
three lights of
glass in upper
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PEELLE

COUNTERBALANCED - TRUCKABLE

Freight ELEVATOR DOORS



Dominican College Conservatory of Music, San Rafael,
Cal. Deadened with Cabot's Quilt
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"Next to light and ventilation the most important item of schoolhouse construction is sound-proof floors and partitions."

Sound Proof Floors and Partitions

are necessary in all safe and sane schoolhouses and are produced by

Cabot's Deadening "Quilt" *The Standard Sound Deadener*

It breaks up and absorbs the sound waves as no other deadener can; it is indestructible, unflammable, scientific and sanitary; cannot rot, will not harbor moths or vermin, and resists fire.

"I have found the Quilt invaluable as a deadener of noise."—
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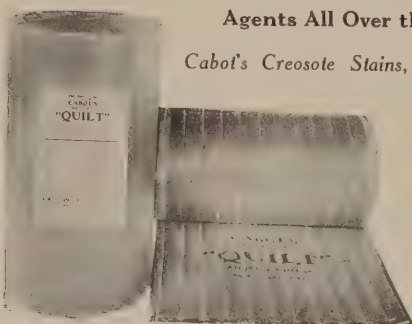
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Nathan Myers, Architect

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And of these fifteen, FOURTEEN chlorinated, showing the superiority of chlorination.

W&T EQUIPMENT, reinforced by a country wide organization is today sterilizing hundreds of swimming pools throughout the world. A staff of experts is maintained to advise on any problem connected with Swimming Pool design, construction, or operation, without expense to the supervising architect.

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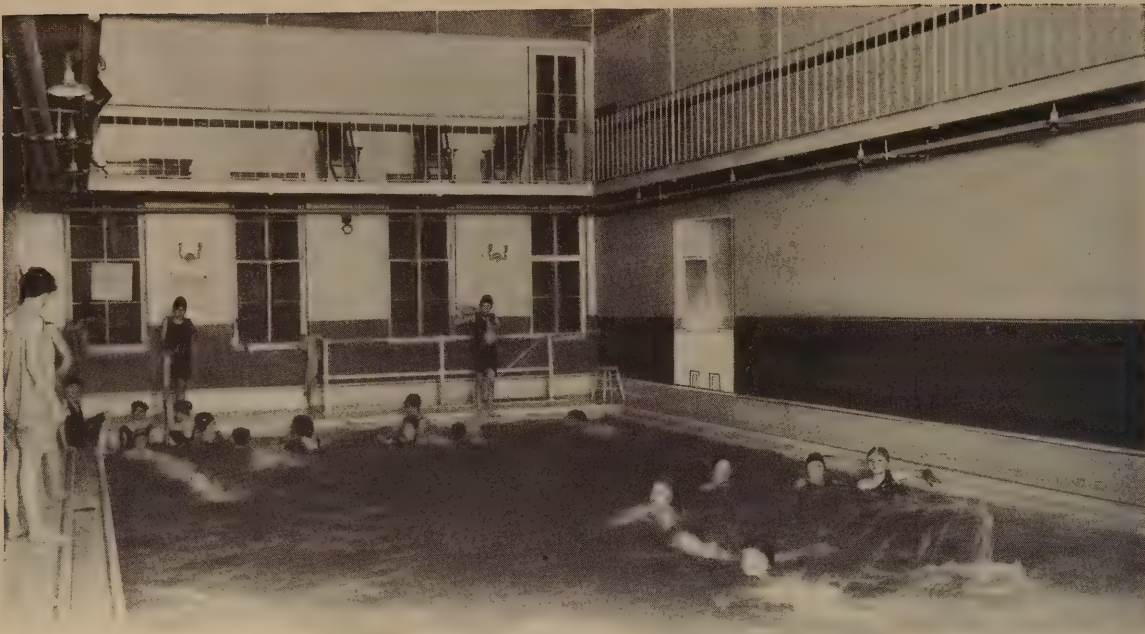
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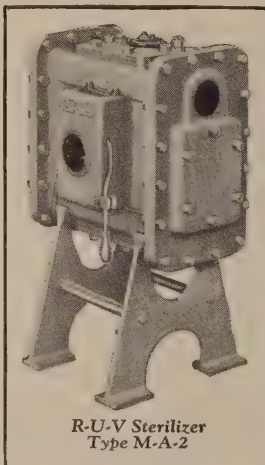
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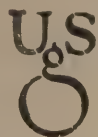
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1926 Reference Numbers

AS a result of actual balloting by subscribers to THE ARCHITECTURAL FORUM, these important subjects have been selected for treatment in the quarterly Reference Numbers during the current year:

MARCH; SMALL HOUSES (Cost under \$25,000).

Although THE ARCHITECTURAL FORUM naturally devotes considerable space to moderate cost houses, here is a Reference Number dealing with nothing else. It will be a general summing up or symposium on the subject, covering the design, plan, construction, equipment, decorating, furnishing and financing of the small house.

JUNE; UNIVERSITY & COLLEGE BUILDINGS (Part II).

THE FORUM for December, 1925 appeared as a Reference Number dealing exclusively with Collegiate Buildings, and was among the most successful and popular of these special issues. But the subject was far too large and much too important to be covered even in a FORUM Reference Number, so the June, 1926 issue will continue the presentation, and will illustrate and describe the best of several types of University and College Buildings.

SEPTEMBER; CLUB, FRATERNAL AND Y. M. C. A. BUILDINGS.

So few architects make a specialty of designing structures of this character that the opportunity of designing and planning a club or a fraternal building is likely to cause a hurried investigation of the matter. The September FORUM will be a Reference Number, covering the subject in THE FORUM's usual complete manner. Every aspect of the problem will be discussed by men well qualified to handle it.

DECEMBER; COMMUNITY & MEMORIAL BUILDINGS.

The growth of the Community Center idea has been phenomenal, and the period following the World War has brought with it the founding of many such structures as memorials. Buildings of a memorial character often take other forms, of course, and the December, 1926 FORUM in a Reference Number will illustrate and describe numerous memorial buildings of various types,—a powerful aid to architects having problems of this nature to solve.

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¶ Such a work has now appeared, prepared in the light of considerable successful experience and covering every phase of the organization and administration of a coöperative apartment house project; the forming of the owning corporation; the sale of tenant owners' stock; arrangement of owners' leases; erection of the building, and the conducting of the affairs of the association when once the building has been constructed and is in operation.

¶ To render the work of as practical a value as possible, inclusion is made of all the legal forms likely to be required, such as stock certificates, leases for stockholders and subleases, and the blanks used in the office of the association's secretary or bookkeeper. A number of pages are given up to describing various forms of publicity which have been found useful in attracting members to coöperative apartment house groups, and the volume contains the information which, regarded from every point of view, has been required. It should supply a powerful stimulus to the coöperative movement by promoting a correct understanding of its fundamental principles.

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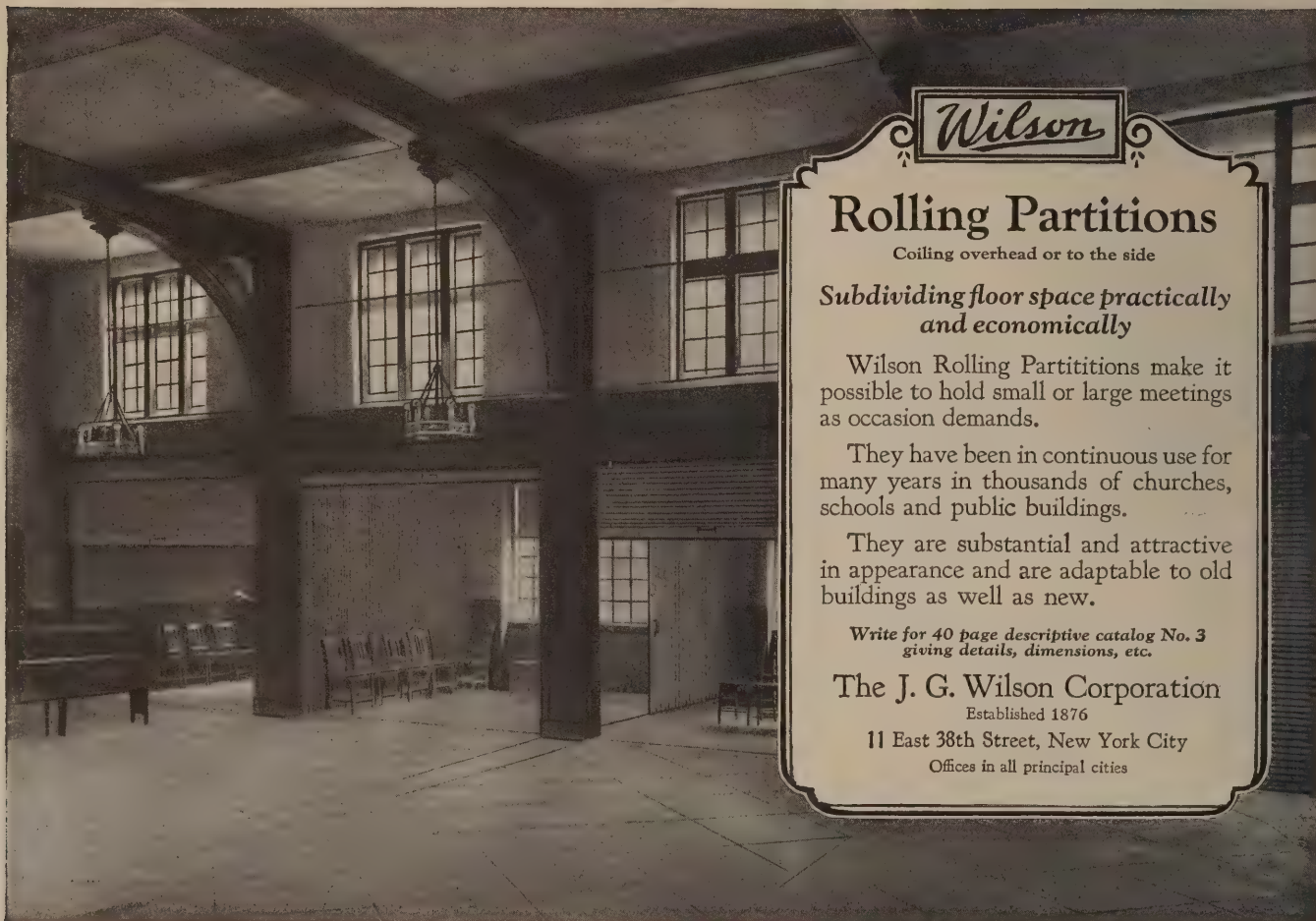
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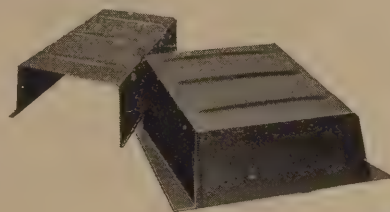
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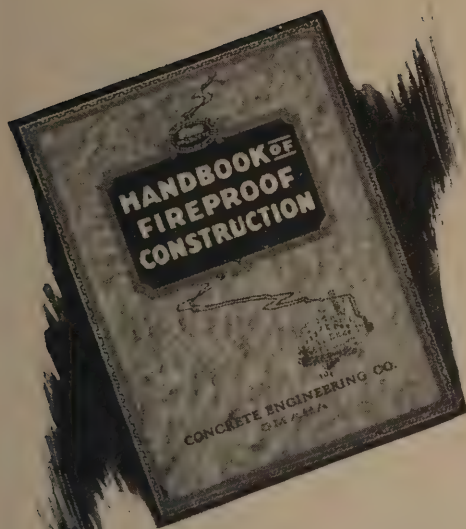
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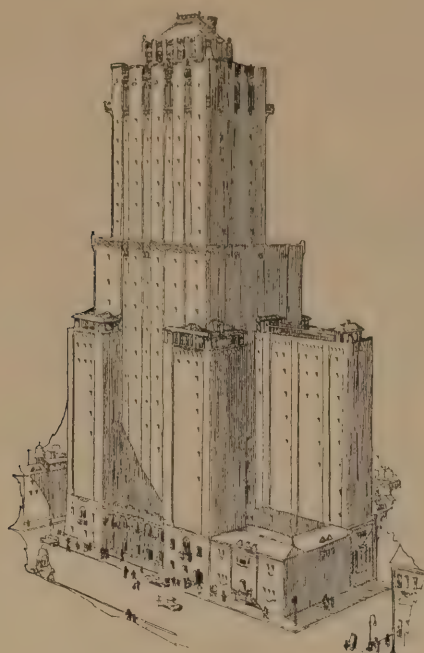


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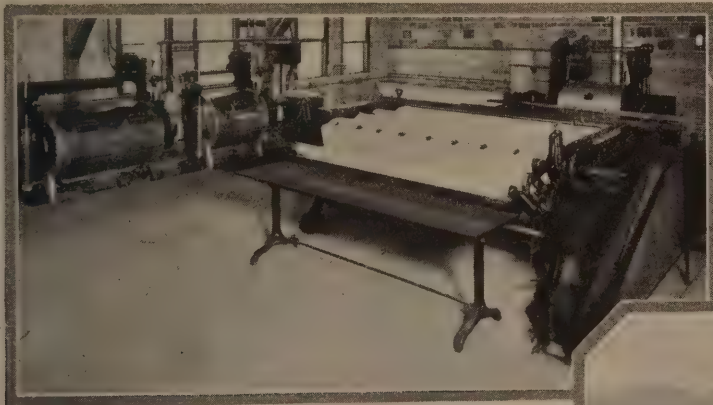
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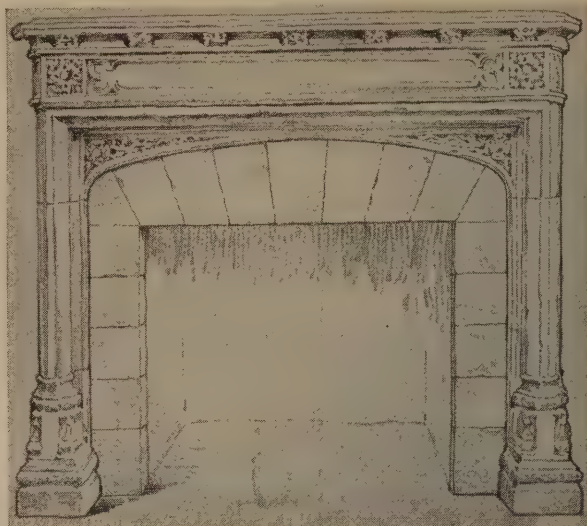
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Jacobson Mantel & Ornament
Company

ARTIFICIAL STONE MANTELS

322-4 East 44th Street, New York

ALSO COMPOSITION ORNAMENTS FOR WOODWORK

LOUIS GEIB

ARTHUR P. WINDOLPH

PROVINCIAL HOUSES IN SPAIN

By Arthur Byne & Mildred Stapley

ARCHITECTS value Spanish types of domestic architecture because of their simplicity of design and plan and also because they are easily developed in materials inexpensive and easily had. Spain offers a choice of several kinds of residence architecture, types sufficiently different from one another to afford considerable range of selection, yet all possessing the same strength and virility, the excellent lines, the same graceful but unaffected grouping, and the discriminating use of detail which renders distinguished so many Spanish domestic buildings.

Houses in various parts of the Spanish peninsula, particularly the buildings of medium size in rural districts or provincial towns, offer excellent precedent for use in different parts of America where climate conditions are about what prevail in the provinces of Spain.



IN this volume two well known writers on Spanish architecture and decoration review the various forms which are given to the small or medium sized house in Spain. To render the work as helpful as possible to architects, the authors have included many plans and drawings of different kinds, details of such exterior parts of buildings as friezes, cornices, windows, timber overhangs, soffits and balconies, or of such interior parts of the structure as ceilings, fireplaces, doors and stairways. Part of the work deals with the tiles, pottery, ironwork, plaster in relief and the other forms of craftsmanship which contribute so much to the excellence of domestic architecture in Spain. It is a work likely to be invaluable to the designer.

The book contains text and 190 plates 12½x16 inches, and is bound in cloth. Price \$25, postpaid.

ROGERS & MANSON COMPANY, 383 Madison Avenue, New York

Making 49,520,882 sales calls on prospective home owners

"The best advertising I have ever seen on heating equipment." A man who knows the business of selling boilers and radiators said that after studying the advertisement reproduced here.

You will see it in full color in the national magazines for February. So will 4,788,000 other people. It starts the striking new campaign of four-color pages advertising Capitol Boilers and United States Radiators.

Never has this company, or any other in the industry for that matter, so well illustrated to the public the architectural background of heating equipment.

Beautiful paintings of comfort in the home replace the usual picture of a

boiler. The background, in a novel and interesting way, shows an entire heating installation—boiler, piping, and radiators in relation to every room in the home.

This advertising will make 49,520,882 sales calls during 1926. It is going to go into every worth-while home around you, assuring appreciation of your judgment and care in selection, when you specify Capitol Boilers and United States Radiators.

UNITED STATES RADIATOR CORPORATION, DETROIT, MICHIGAN
WAREHOUSE STOCKS AND SERVICE IN ALL PRINCIPAL CITIES

For 36 years, builders of dependable heating equipment

Capitol Boilers

and

UNITED STATES RADIATORS

DEPENDABLE HEAT ALL OVER THE HOUSE WITH ECONOMY



**Out of a blizzard
into summer warmth**

FIVE below! What a night! A key turned in a frosty lock . . . a soft June breeze rushes out its welcome. What a pleasure to be home!

The owner of a Capitol Boiler is no slave tied down to an antiquated heating outfit. He knows that clean, healthful warmth, permeating every room, will always greet his return.

In five easy minutes he fired his boiler this morning. In five more it will be ready for the night. His youngster could manage it.

Strange but true, his shivering, slaving neighbors pay a lot more for heat than he. A Capitol Boiler with United States Radiators requires much less fuel than ordinary systems; yet costs no more.

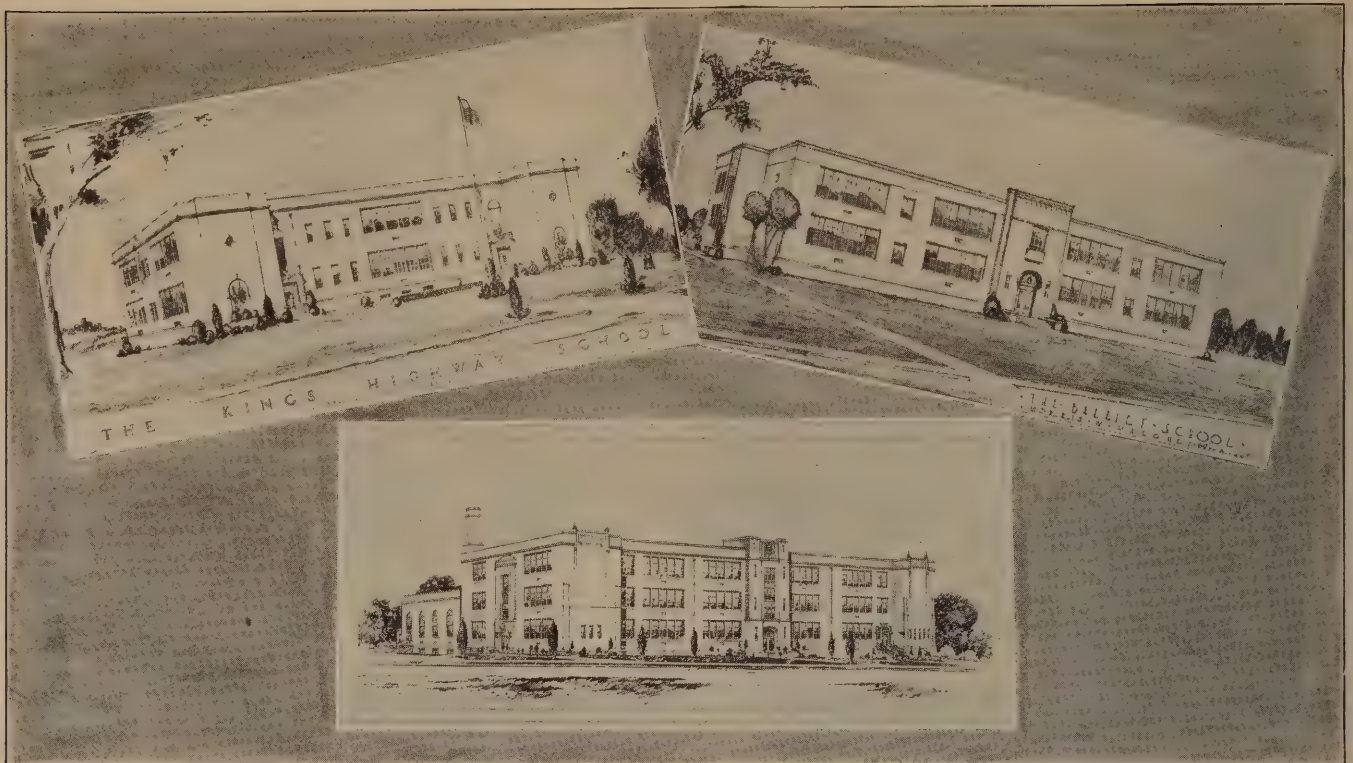
Consult your contractor about Capitol heating, now! Write for "A Modern House Warming."

UNITED STATES RADIATOR CORPORATION
DETROIT, MICHIGAN
WAREHOUSE STOCKS AND SERVICE IN ALL PRINCIPAL CITIES
For 36 years, builders of dependable heating equipment

**Capitol
Boilers**
and
**UNITED STATES
RADIATORS**

THE CAPITOL GUARANTEE
Back of every Capitol Boiler stands a written guarantee on its capacity and construction—the broadest and most definite guarantee made on heating equipment.

INSTALLED NATIONALLY BY ESTABLISHED HEATING AND PLUMBING CONTRACTORS



Left—The Kings Highway School

UNIVENT EQUIPPED Schools, Springfield, Mass.

Center—Elias Brooking School

Morris W. Maloney, Springfield, Mass., Architect

Right—The Balliet School

The Architects Power for Good

For every one school an architect designs, he also builds thousands of better men and women, thanks to his high ideals of light, sanitation and ventilation.

It is a great thing to create a beautiful building, but even greater is the achievement when it also directly results in sturdier, healthier, more alert, more capable lives. Recognizing this responsibility—and welcoming it—an increasing number of architects are specifying Univent Ventilation.

The Univent brings fresh air from outdoors, warms it, cleans it when necessary, and diffuses it perfectly by an agreeable air motion, but without drafts.

Write for our Architect's edition of "Univent Ventilation." It shows why and how the Univent is being so extensively used in schools, both old and new, and in many other types of buildings.

UNIVENT
(TRADE MARK)
VENTILATION

THE HERMAN NELSON CORPORATION *Moline, Ill.*

BELFAST, ME.
BOSTON
NEW HAVEN
NEW YORK CITY
SYRACUSE

PHILADELPHIA
SCRANTON
PITTSBURG
GRAND RAPIDS
DETROIT

ales and Service Stations
CLEVELAND
COLUMBUS
TOLEDO
INDIANAPOLIS
ST. LOUIS
CHICAGO

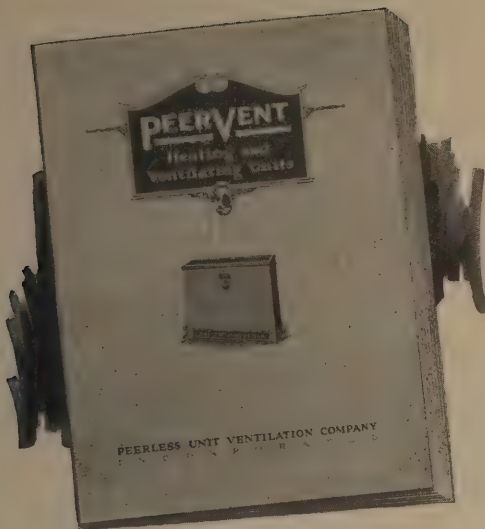
EMPORIA
OMAHA
KANSAS CITY
DENVER
SALT LAKE CITY

SPOKANE
PORTLAND
SEATTLE
VANCOUVER
TORONTO

Send for this New Booklet on the **PEERVENT** Unit System of Heating and Ventilating

IT describes—largely by means of detail photos and practical drawings—a system of heating and ventilating which gives each room—

- exactly the required cubic feet of air per minute,
- at any desired temperature,
- at a cost depending entirely upon the needs of that particular room.



It covers standard, semi-concealed, and concealed types of units, with drawings of various adaptations to special architectural conditions.

It includes much useful engineering data, directions for laying out a unit system of heating and ventilating, and thirty pages of conveniently indexed tables pertaining to this subject.

*Send for a copy; you will be
glad to keep it in your files.*

PEERLESS UNIT VENTILATION CO., INC.
Skillman Avenue and Hulst St., Long Island City, N. Y.

100 Boylston St., Boston; 196 Worthington St., Springfield, Mass.; 339 Second Ave., Pittsburgh; 1836 Euclid Ave., Cleveland; 808 Monadnock Bldg., Chicago; 723 Lafayette Bldg., Detroit; 520 Securities Bldg., Des Moines; 927 Board of Trade Bldg., Portland, Ore.; 77 York St., Toronto

PEERVENT

Heating and Ventilating Units

Peerless
Unit Ventila-
tion Co., Inc.

Skillman Ave. and Hulst St.
Long Island City, N. Y.

Please send a copy of your
new catalogue to

Name

Address

A. F.-1

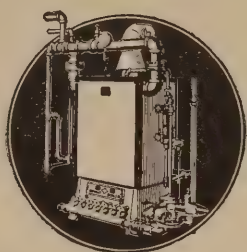
BRYANT HEATING

for Hot Water, Steam



Vapor and Warm Air

Clean, Carefree Heating at Moderate Cost!

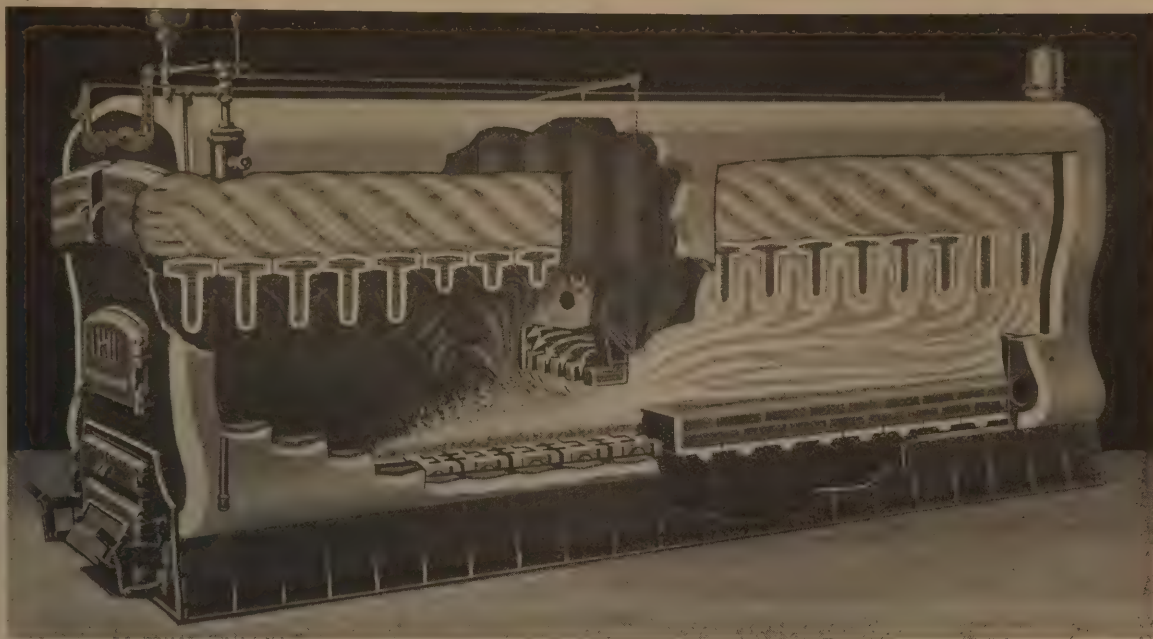


Practically all gas companies now grant special reductions on gas for house heating. Efficiently burned, the cost of this clean, carefree fuel is now well within reach of most homes. Let the nearest Bryant office give facts and figures.

THE BRYANT HEATER & MFG. COMPANY
17862 St. Clair Avenue Cleveland, Ohio

Branches in 21 Principal Cities





Cutaway View of SUPER-SMOKELESS BOILER
showing Air Inlet which feeds heated air to the fuel bed, igniting and burning the smoke and gases

PROTECTION

Against Any Fuel Situation!

Utica Imperial SUPER-SMOKELESS Boilers will burn even the cheapest grades of soft coal without smoke and with great economy and efficiency. They have proved remarkably successful for oil-burning, and will, when occasion requires, utilize successfully hard coal or coke—thus protecting their owners against any fuel emergency! This is an important consideration in view of the uncertainty of a constant supply of any one type of fuel.

In the SUPER-SMOKELESS Boiler, through a patented device, heated air is introduced at the right time and the right place. The smoke and gases of soft coal are ignited and burned within the boiler as fuel of remarkable heating value. All of the heat units in the fuel are utilized, the smoking stack is eliminated, and every ton of coal burned gives out a greatly increased amount of heat.

Since the introduction of this remarkable boiler owners have been saved many thousands of tons of coal, in addition to the protection of being able to burn any available fuel. Although widely imitated in partial detail, the SUPER-SMOKELESS remains the only boiler in which the Bunsen Burner principle is properly applied. No other boiler so completely and efficiently solves the smoke problem and the fuel problem.

UTICA-IMPERIAL

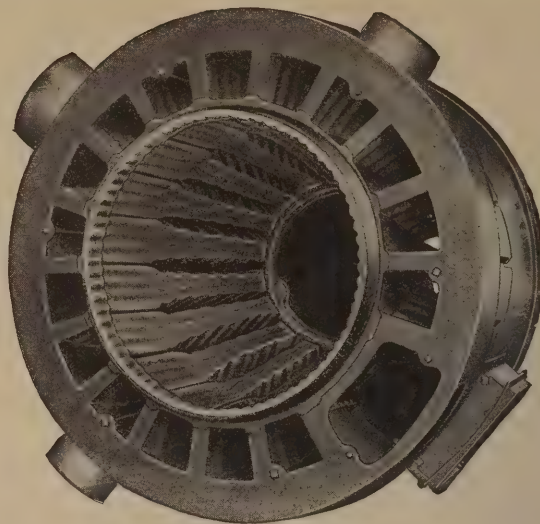
SUPER-SMOKELESS BOILERS

Manufactured by the

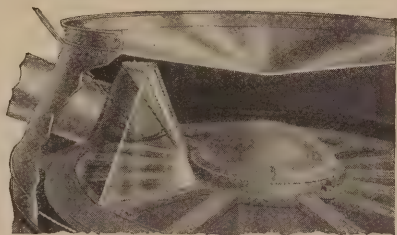
UTICA HEATER COMPANY, Utica, N. Y.

SALES OFFICES IN THE PRINCIPAL CITIES

YOU are looking into the Kelsey fire-box (from the bottom) with the famous zig-zag tubes—all sides exposed to heat—a big saving in coal.



The Kelsey Warms That "Hard-to-Heat" Room



No matter what its location or how hard the wind may be blowing.

Here's How It Does It

Two or more of the famous zig-zag heat tubes are capped and connected with warm-air pipe going to room. See illustration. All heat from these tubes goes into that room. It's always warm and comfortable in any weather, and there's ample capacity in the Kelsey for heating the rest of the house.

The Kelsey Warm Air Generator is scientifically designed so that any room, in any kind of weather, can be made warm and comfortable—and the rest of the house kept at its usual temperature.

Every architect will be glad to have "Kelsey Achievements" for his files. Write for complimentary copy of this "heating-facts" booklet.

Our Engineering Department makes plans and specifications for either gravity or mechanical heating and ventilating systems for churches, schools and large residences.

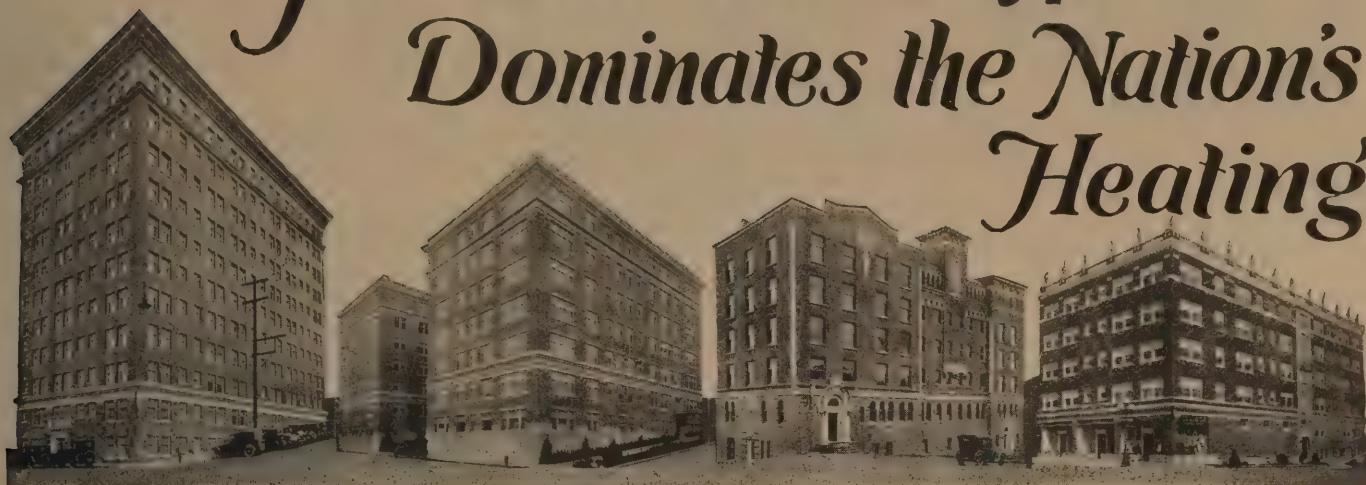
Sales Offices
Boston and New York

THE KELSEY
WARM AIR GENERATOR
Trade Mark Reg. U. S. Pat. Off.
251 James Street, Syracuse, N. Y.

Dealers
Principal Cities



The Dunham Skyline Dominates the Nation's Heating



Spring Apartment Hotel

Wilsonian Apartments

Virginia Mason Hospital

Flemington Apartments

IT REQUIRES but a glance at the fine modern buildings shown on this page to realize that in Washington, as elsewhere, Dunham Heating is preferred by a number of discriminating architects, builders and heating contractors. In this respect, Washington differs not at all from the entire tier of Pacific Coast states, nor for that matter from the United States as a whole, for on the Coast, and throughout the country, wherever you go, you will find a Dunham Skyline of public and office buildings, and as in this instance, residential buildings.

The buildings shown in the upper illustration all are in Seattle, famous throughout two hemispheres as one of the most aggressive and certainly one of the most rapidly growing cities in North America. The buildings in the illustration at the bottom of the page are Dunham Installations in the city of Everett, Washington, situated not far north of Seattle, and like its larger neighbor, a community whose fame has traveled far. These two groups of Dunham Heated structures reveal how thoroughly the Northwest is sold on the Dunham System of Heating, and furnish proof that

Seattle, too, is a Dunham City and so is its neighbor, Everett, Washington

When architects, consulting engineers and heating contractors in Seattle and Everett, as in other wide-awake centers, show so great preference for Dunham Heating, isn't it logical to presume that this system of heating homes, apartments, office buildings, schools, churches, stores, hospitals and many other types of structures possesses distinct advantages not offered by any other system? These advantages, upon investigation, will be found to comprise all of the outstanding requirements of a modern system of heating for every class of building.

Over sixty branch and local sales offices in the United States and Canada bring Dunham Heating Service as close to your office as your telephone. Consult your telephone directory for the address of our office in your city.

C. A. DUNHAM CO.
230 East Ohio Street, Chicago

DUNHAM
HEATING SERVICE

Other "Dunham" cities which have already appeared in the skyline series.

CHICAGO
NEW YORK
PHILADELPHIA
WASHINGTON, D. C.
CINCINNATI
DALLAS
LOS ANGELES
LOUISVILLE



Hartman Apartments

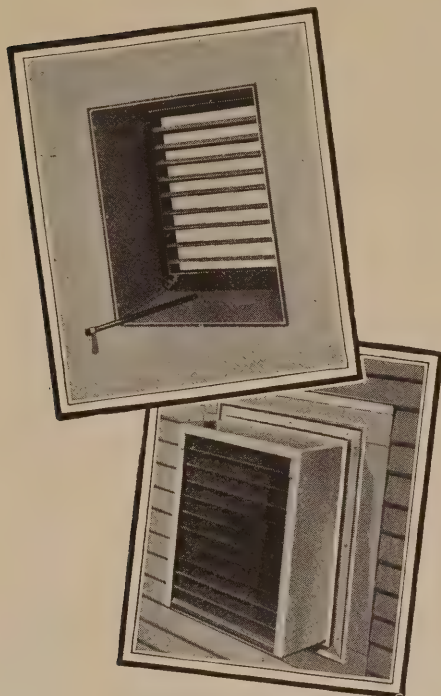
Weyerhaeuser Timber Co.,
Office Building

Knights of Columbus Building

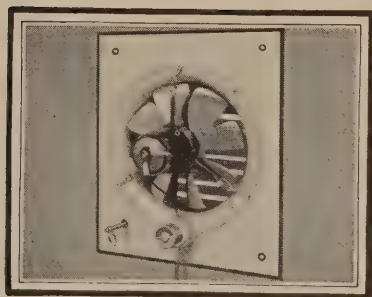
Quigley Clinic

NOW Clean Cool and Fresh Kitchens with Built-in Ventilation !

Interior showing sleeve or box in position. Box requires opening $14\frac{3}{8}$ " wide by $17\frac{3}{4}$ " high.



Exterior view of permanent wall fixture with louvers open



Interior showing fan in kitchen. Note the neatness of this compact unit

To say that the perfection of the Permanent Wall Fixture for use with the Ventura Reversible Kitchen Ventilating Fan is destined to exert a real influence on domestic architecture may sound like an exaggeration.

Yet this is literally true, for—now that electric ventilation can be made an integral part of home construction—it is possible to enjoy new freedom in planning.

An otherwise ideal arrangement need not be distorted in order to isolate the kitchen or to assure adequate ventilation. Where-

ever the kitchen may be placed, cooking odors are effectually prevented from penetrating into adjacent rooms and the atmosphere of the kitchen itself remains always clear, cool and inviting.

Complete specifications and installation details gladly furnished on request.

AMERICAN BLOWER COMPANY, DETROIT
BRANCH OFFICES IN ALL PRINCIPAL CITIES
CANADIAN SIROCCO COMPANY, LIMITED, WINDSOR, ONTARIO

(494)

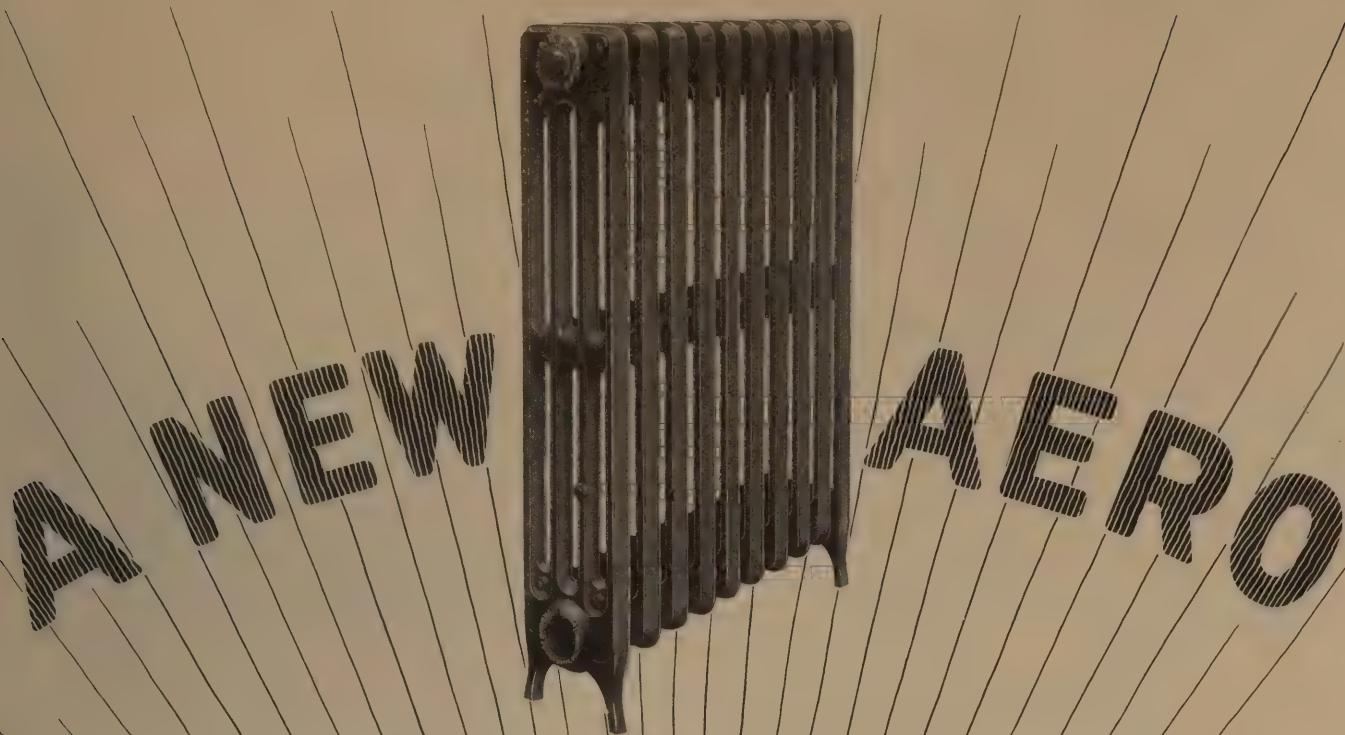


American Blower

"Sirocco"
TRADE MARK

VENTILATING, HEATING, AIR CONDITIONING, DRYING, MECHANICAL DRAFT

Manufacturers of all Types of Air-Handling Equipment — Since 1881



Above is pictured the new style of Aero Radiator—the 4-column pattern. It was developed to meet the needs of medium sized rooms and office buildings.

This new Aero has the beautiful, graceful, slender lines and the high warming efficiency, that is characteristic of all Aero Radiators.

For more than three years this only complete line of the newest and most approved style of radiation has proven entirely satisfactory to Architects everywhere.

Yet probably the most attractive feature is "All styles of Aero Radiators sell only at the cost of standard radiation."

NATIONAL RADIATOR COMPANY
JOHNSTOWN, PA.

PLANTS: Johnstown, Pa., New Castle, Pa., Trenton, N. J.
BRANCH OFFICES: New York, Philadelphia, Baltimore, Washington,
Richmond, Pittsburgh, Cincinnati, Cleveland and Chicago.



THE COMPLETE LINE

BEAUTY and WARMTH with

AERO  RADIATORS

And in Rochester...



THERE, too, Spencer Heaters have a long record of coal bill savings for the numerous clients of architects who guided their patrons to the benefits and economies of Spencer Heating their homes, as well as office, hotel, apartment, industrial and institutional buildings.

Your complete confidence in Spencer Heaters is earned by their 25 years of successful operation.

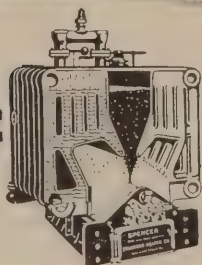
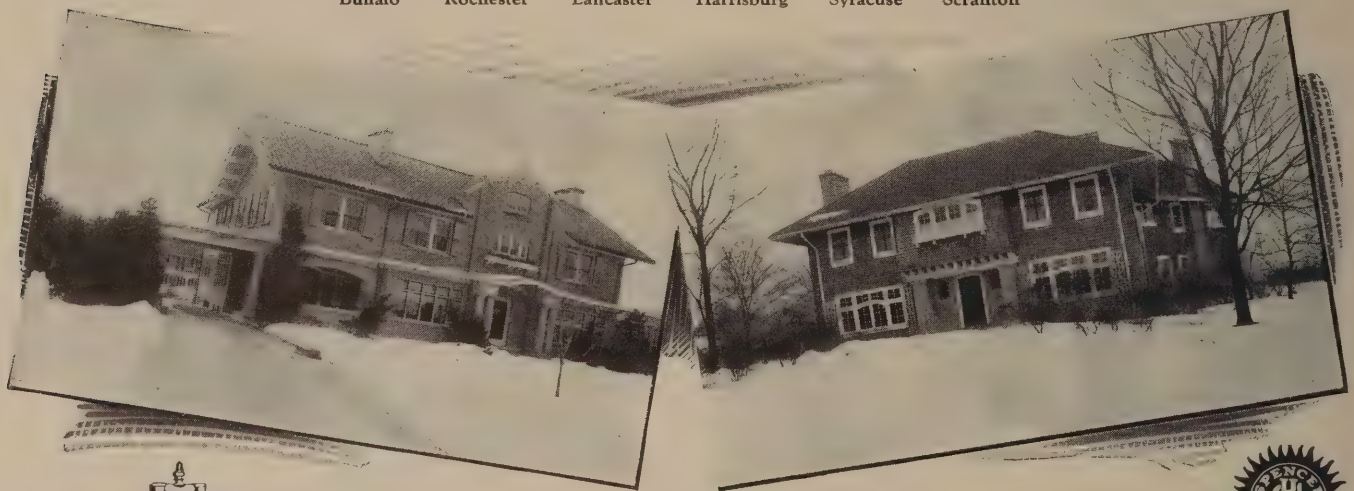
There are so many Spencer advantages, besides the fact that these heaters burn No. 1 Buckwheat that costs \$4 to \$7 less per ton, that you may want to refresh your memory by writing for descriptive literature or special information.

STANDARD HEATER COMPANY

General Offices:

WILLIAMSPORT, PENNSYLVANIA

New York Boston Philadelphia Baltimore Detroit Washington Schenectady
Buffalo Rochester Lancaster Harrisburg Syracuse Scranton



Spencer
steam, vapor or hot water
Heaters
burn No. 1 Buckwheat coal



How well-known Architects are making cellars beautiful

IN A RECENT CONTEST conducted by an Architectural Magazine, Architects from every part of the country submitted plans for a new kind of cellar construction.

In every community there are hundreds of homes where valuable space in the cellar is wasted. This space could have been planned for workshops, play rooms, billiard rooms, indoor golf, living quarters, etc.

IDEAL TYPE "A" HEAT MACHINE —comfort supreme and unending

Never before has this been possible because never before has there been a boiler which could keep dust, dirt and ashes inside. All doors are tight-fitting, carborundum ground; incased in beautifully enameled jacket.

Not only is the IDEAL Type "A" Heat Machine an ornament, but it is so efficient that it soon pays for itself in the fuel it saves. Every Branch of this company is equipped to give special service to Architects. We shall be glad to have you call on us.



Above are shown some of the plans which Architects have devised for beautiful homes in which the IDEAL Type "A" Heat Machine can be installed.

Write today for beautifully illustrated booklet which describes this Heat Machine in detail and gives fuel economy tests. Dept. 110, 1807 Elmwood Ave., Buffalo, N. Y.

AMERICAN RADIATOR COMPANY

Showrooms and sales offices: New York, Boston, Providence, New Haven, Newark, Philadelphia, Baltimore, Washington, Richmond, Buffalo, Pittsburgh, Cleveland, Detroit, Cincinnati, Atlanta, Chicago, Milwaukee, Indianapolis, St. Louis, St. Paul, Minneapolis, Omaha, Kansas City, Denver, San Francisco, Los Angeles, Seattle, Toronto, London, Paris, Milan, Brussels, Berlin

Makers of IDEAL BOILERS and AMERICAN RADIATORS





The successor to the transom

UNTIL recently the unsightly transom was a necessary evil, but it is no longer necessary. The Ventadoor, a modern ventilating panel for doors, has made the transom a thing of the past.

The Ventadoor issues proper ventilation without any of the disadvantages of the transom. Objectionable light and vision from the corridor are excluded—you cannot see through the Ventadoor even when open.

In appearance, the Ventadoor is artistically correct, adding dignity to the door and blending with the trim of corridor and room. The awkward operating mechanism of the transom is eliminated—the sliding panel of the Ventadoor is controlled by a small knob.

The first cost of Ventadoors is less than the cost of installing transoms, and there is no upkeep expense. We will gladly supply full information on construction and specification of Ventadoors for any installation.

VAN ZILE VENTILATING
CORPORATION

280 Madison Avenue, New York

VENTADOOR
A ventilating panel for doors



Wards of the State

are receiving greater consideration than ever before and matters of sanitation and the insuring of health are deemed of the greatest importance, not alone for the welfare of the individual, but in preventing contagion for the benefit of all. The above illustration shows a small part of the South Colony State Hospital buildings at Central Islip, N. Y., which extend continuously $1\frac{1}{4}$ miles, every building being "GLOBE" ventilated, as shown above.

"GLOBE" VENTILATORS



can be relied upon to furnish complete, continuous ventilation with absolute elimination of trouble or upkeep expense. Strongly constructed of heavy, rust-resisting material, they will give many years of satisfactory service.

GLOBE VENTILATOR CO.

Dept. F

Troy, N. Y.



HESS

CABINETS and MIRRORS

Snow-White Steel




STYLE E
to recess with open pocket below.

HESS Cabinets and Mirrors are **matchless** in their satiny snow-white coats;—**hand rubbed** in the manner the finest furniture is finished. Best polished plate glass mirrors, brass handles and hinges, heavily nickel plated.

They are suitable for the finest bathrooms,—low enough in price for the moderate price builder. Specify them and please your client; See Sweet's Catalogue.

HESS WARMING & VENTILATING CO.
Makers of Hess Welded Steel Furnaces.
1216 S. Western Avenue, Chicago





The Johnson System Of Temperature And Humidity Control has the voluntary endorsement of leading architects of North America. This is manifestly indicative of The Johnson System's success: not in the winning of such noteworthy approval, but the Johnson reasons for that approval. Definite knowledge of The Johnson System, its design and construction, its operation and results, excites naught but highest regard. To ascertain first hand facts in full is advisable.

There Are Now 29 Johnson Branches In United States
And Canada, Each Branch Johnson Owned And Equipped,
Giving Direct Johnson Factory Service In Every Detail.

JOHNSON SERVICE COMPANY

MILWAUKEE, WISCONSIN

AUTOMATIC TEMPERATURE REGULATION SINCE 1885
TWENTY-EIGHT BRANCHES UNITED STATES AND CANADA

JOHNSON

SYSTEM OF TEMPERATURE AND HUMIDITY CONTROL

CORROSION

is the cancer of metal



For your protection Reading Pipe is now marked with a Spiral Band of Knurling, stamped into the metal. You can be sure it's genuine even through a coat of paint!

In the darkest corner a man with a flashlight can instantly identify "Reading."



Even on the shortest length "Reading" identification is instant and positive.

A \$100. "Saving" in a \$25,000. Home

NOTHING illustrates the false economy of cheapness quite so graphically as the pipe within your walls. Such a scene as pictured above is unnecessary when you consider that a small amount of foresight and a few additional dollars are sufficient to banish forever the menace of rusted pipe and damaged property.

Possibly you have yet to experience such a disaster; but unless you have guarded against it, corrosion is slowly but surely working in your piping, toward inevitable leaks and their accompanying expensive repairs.

Reading Genuine Wrought Iron Pipe costs but little more than steel pipe, yet its rust-resisting properties guarantee it a useful life equal to that of the house itself.

When you build or remodel specify the pipe that endures—and then see that it is marked "Reading."

READING IRON COMPANY
READING, PA.

World's Largest Makers of Genuine Wrought Iron Pipe

Boston
Philadelphia
Seattle

Dallas
Pittsburgh
Chicago

New York
San Francisco
Baltimore

Cincinnati
Los Angeles
St. Louis

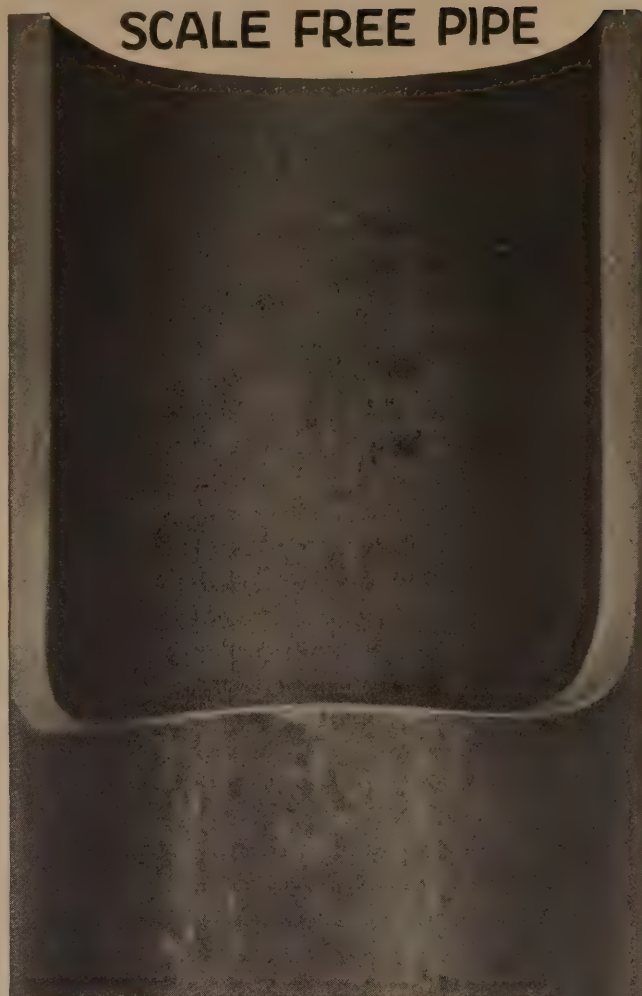
READING PIPE

GENUINE WROUGHT IRON

ORDINARY PIPE



SCALE FREE PIPE



CLEAN, SMOOTH SURFACES
MINIMIZED FRICTION LOSSES
INCREASED WORKING CAPACITY
BETTER GALVANIZED COATINGS
LONGER LIFE IN SERVICE

These are some of the advantages of pipe made by the SCALE FREE Process—an exclusive “NATIONAL” feature. The section of pipe at the left (note the patches of scale) was made by the ordinary process; the section at the right (note the clean, smooth surfaces) was made by the SCALE FREE Process, which is applied to “NATIONAL” Butt-weld Pipe, sizes $\frac{1}{2}$ to 3-inch, inclusive. Bulletin No. 7 tells the whole story—and will be sent upon request. Every architect should have a copy of this bulletin—it’s brief, interesting and valuable.

NATIONAL TUBE COMPANY

Frick Building, Pittsburgh, Pa.

DISTRICT SALES OFFICES IN THE LARGER CITIES

Only “NATIONAL” Pipe is Made by the SCALE FREE Process



5 FREE booklets

MAKING Conduits, Cables, and Fittings, for safe, permanent and trouble-free electrical wiring is the sole business of the National Metal Molding Company. Five of the products are fully and completely described in these booklets. Send for them.

ECONOMY Black Enameled Rigid Conduit, protected by double-dipped, acid-resisting coating of enamel—baked on.

FLEXTUBE Non-metallic, solid-wall Conduit. Never kinks! Bend it, jerk it, twist it, easily works back into shape again. The soap-stoned interior makes fishing easy.

FLEXSTEEL Flexible Metallic Conduit, pliant as a rope of woven steel! Designed to withstand weather and moisture. Of great flexibility and permanence. Full line of sizes.

OVALFLEX A Flat Armored Cable only 5/16" thick. Bends edgewise and flatwise. Lay it on brick, tile or concrete without cutting or chipping and plaster right over it.

NATIONAL BRACKETS Designed so that wires can be attached or threaded and built to withstand excessive strain.

National Metal Molding Company
1420 FULTON BUILDING
PITTSBURGH, PA.

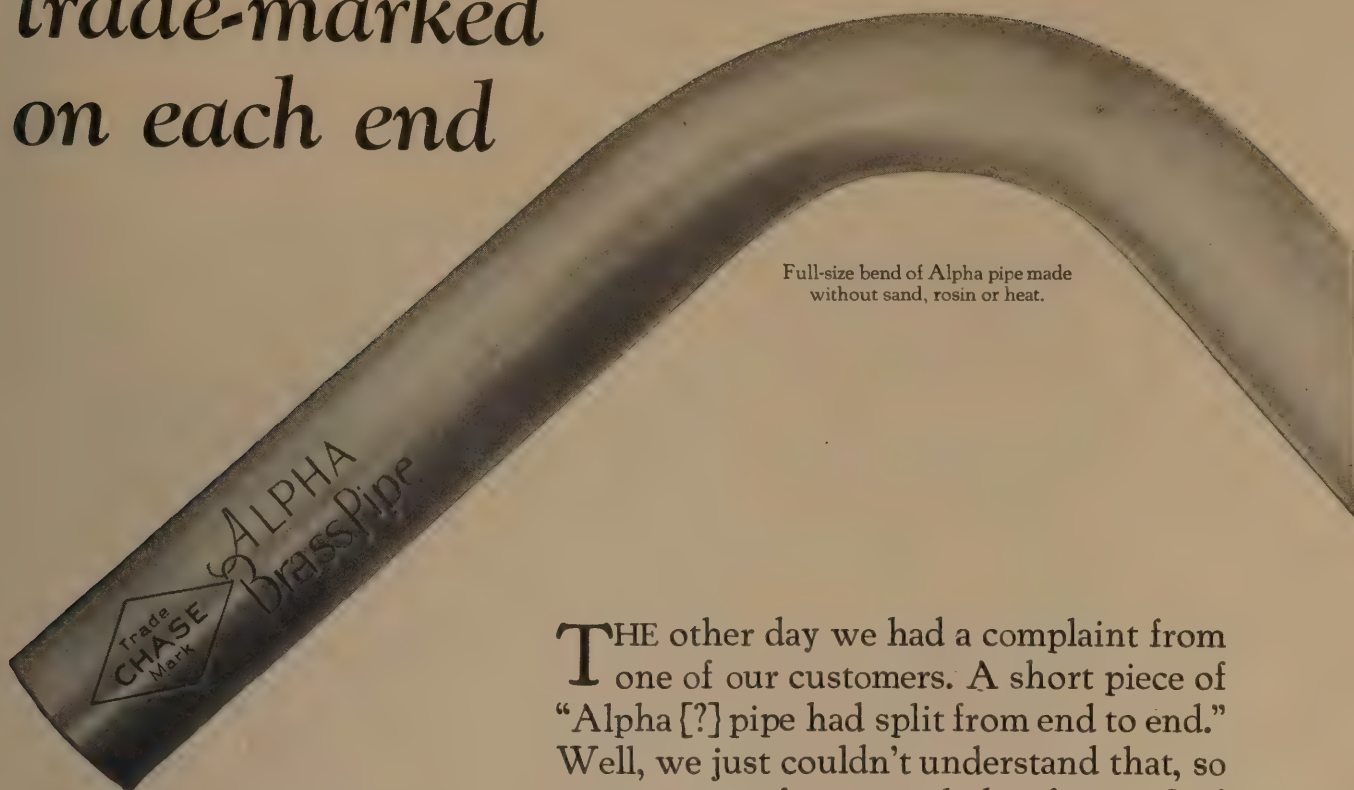


Represented in All Principal Cities

(x46)

National Metal Molding Company

Every length is
trade-marked
on each end



ALPHA Brass Pipe

contains only Alpha crystals which make a dense, ductile and tough brass that offers greater resistance to corrosive waters. Because it contains more copper and lead it makes better bends and cuts and threads easier.



CHASE COMPANIES

INCORPORATED
WATERBURY, CONNECTICUT
Chase Metal Works — Chase Rolling Mills

STOCKS

Chase Companies of New Jersey, Newark.
The Ohio Chase Company, Cleveland.
Chase Companies of California, San Francisco,
Los Angeles

OFFICES

Boston New York Philadelphia Rochester
Pittsburgh Chicago St. Louis Denver Atlanta
Members Copper and Brass Research Association

THE other day we had a complaint from one of our customers. A short piece of "Alpha [?]" pipe had split from end to end." Well, we just couldn't understand that, so we sent one of our people hot-foot to find out. To make a long story short, we proved that it wasn't Alpha pipe and the plumber remembered that he had used that one piece of pipe of unknown make which was picked up in his shop. He thought it was all right. Now, he knows the difference.

We had been marking our pipe on one end only—now we mark it four feet from each end so that even short pieces will carry our guarantee.

Alpha pipe is better and our little book on Alpha brass tells why. May we send you a copy?

CHASE COMPANIES, INCORPORATED, *Waterbury, Conn.*

Please send me free of charge a copy of your book on Alpha Brass,

AF-6131-1

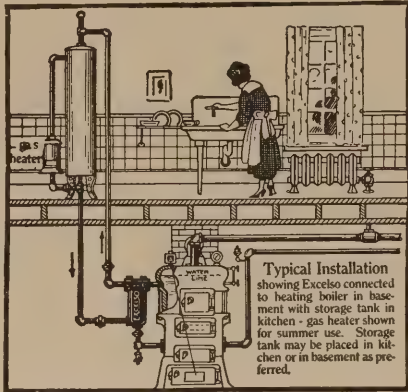
Name _____

Position _____

Firm _____

Address _____

Specify CONVENIENCE AND ECONOMY



THE Excelso Indirect Water Heater, connected to outside of steam or vapor heating plant, requires no attention and is therefore a convenience.

It costs practically nothing to operate as your heating plant that warms your building heats your domestic supply also—therefore an economy.

Over 300,000 in use. Wide range of sizes.
Approved and sold by the plumbing and heating contractors.

Write for specification literature showing typical installations.

EXCELSCO SPECIALTY WORKS, Inc.
69 Clyde Ave., Buffalo, N. Y.

210 East 45th St.
New York, N. Y.

32 Oliver
Boston, Mass.

5939 Haverford Ave.
Philadelphia, Pa.



EXCELSCO WATER HEATERS

Nationally Distributed by Leading Jobbers and Boiler and Radiator Manufacturers

Watrous

Duojet Closets and Flush Valves

*The Most Sanitary and Economical
of All Closet Combinations*

SANITATION. Clogging and overflowing absolutely impossible; repair bills avoided. The wall type, being clear of the floor, greatly aids in cleansing the bathroom.



POSITIVE, SPEEDY ACTION. Duojet action immediately empties the bowl; a thorough flush, at a great saving in the quantity of water consumed.

ECONOMICAL VALVE

ACTION. The Watrous Flush Valve measures out the exact quantity of water required. When used with the Watrous Duojet Closet it gives maximum effectiveness to the water-saving design of the bowl.

ECONOMY IN INSTALLATION. The Watrous wall type avoids the need of closet connections in floors.

*For full details on the Watrous Flush Valve
and Duojet Bowl, write for Booklet CC*

PLUMBING DIVISION

THE IMPERIAL BRASS MFG. CO.

(Established 1885)

1238 West Harrison Street

CHICAGO

Pacific Coast Representative, H. H. CHAFFEE

1234 S. Broadway, Los Angeles 741 Call Bldg., San Francisco

Thinking Architects Specify the

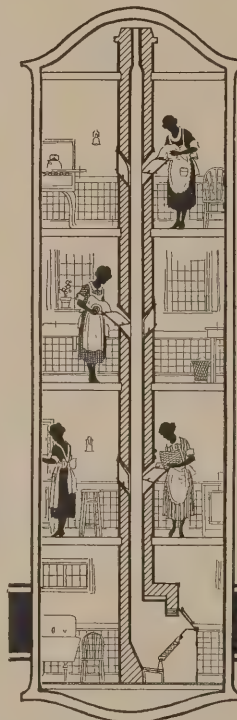
GODER Incinerator

—because of its convenience and economy in disposing of garbage and waste quickly and permanently.

The patented, exclusive GODER Step Grate design insures highest possible incinerator efficiency.

Burns either coal or gas. Total absence of odors. Simply and easily installed in either old or new buildings.

A style and size for every kind of building. GODER costs the least in every way.



**Send for Architect's
File Folder--Free!**

Folder just fits your File 35-J-41
Sent without any obligation.

GODER INCINERATOR CORP.
319 N. Michigan CHICAGO

Pickling "Central" Pipe For "Central Black" and "Central White" Conduit



*Conduit
Pickling Room
in the
Central Plant*

AFTER being threaded, "CENTRAL" pipe is transferred from the pipe mill to the conduit pickling room by an electric truck, from which the pipe is picked up by an overhead crane and securely locked in a large cage.

These cages, loaded with pipe in vertical position, are carried by the crane and then immersed in a cleaning solution which removes all oil and grease from the pipe.

The loaded cages are then transferred to acid vats, where the scale is removed by slow, careful pickling, while the pipe is agitated to insure uniform action of the acid on all parts of the pipe. Special skill and care are required in this operation to pre-

vent injury to the threads by the acid.

The pipe is next placed horizontally on inspection benches and all loose scale is blown from the inside by compressed air. The exterior is examined under powerful lights to detect any possible defects in surface or threads, and a light is placed at one end of each piece of pipe, to enable the inspector at the other end to examine the interior for possible obstructions.

Any piece of conduit in which the slightest defect is observed is rejected and scrapped. The pipe that passes examination is rolled into an adjoining building where it is finished into "CENTRAL WHITE" or "CENTRAL BLACK" Conduit.



GENERAL OFFICES - FIRST NATIONAL BANK BUILDING
PITTSBURGH
DISTRIBUTORS IN ALL LARGE CITIES

The single, highly ornamental faucet made its bow about this time. Hot water was a metropolitan luxury.

1883

1898

Both "hot" and "cold" faucets now, but only in the better homes.

The red, rear entrance "touring car" with its wicker side baskets belonged to the man who possessed this ultra-modern plumbing.

1903

1868

When everybody whistled "Whoa, Emma," the kitchen pump was still abroad in the land.

When Hieronymus Mueller first began the manufacture of brass goods, faucets were simply faucets. And for a number of years they continued to be a slighted element of plumbing. To the Mueller organization, however, they were re-

garded from the first as the Vital Spots of the plumbing system. And the intervening years, which have witnessed a revolutionary development in faucet manufacture, have led everyone who knows good plumbing to accept the Mueller conception.

And this year the Vital Spots will command still more respect

You need only trace your own experience with faucets to realize that people are now recognizing and demanding better and finer faucets. They have realized that faucets, too, have progressed, and that in this development Mueller Faucets have played a leading part.

This year more architects than ever will specify "Mueller Faucets," knowing that Mueller's represent a definitely high and reliable standard

of quality, and knowing also that Mueller national advertising has thoroughly acquainted owners with these high grade faucets without a fault.

When you specify Mueller faucets for the vital spots, you are insuring permanently satisfactory faucet service for your client. Mueller faucets are obtainable in such varied designs and at such reasonable prices that there is no need of specifying inferior goods. Distributed by leading jobbers everywhere.

MUELLER CO.

(Established 1857)

Factories: Decatur, Illinois; Port Huron, Michigan

Canadian Factory
MUELLER, Limited, Sarnia

Branches
New York, San Francisco, Los Angeles

MUELLER

faucets without a fault



BISMARCK Hotel, Chicago; C. W. and Geo. L. Rapp, Chicago, Architects; Weil-McLain Co., Chicago, Plumbing Jobbers; E. Baggot Company, Chicago, Plumbers



The Seal of Kohler Village

There is much to interest the architect, the landscape architect, and the town-planner in that unusual community where Kohler plumbing fixtures and private electric plants are made

CHICAGO will soon have another great hotel—the new Bismarck, now building. Rising eighteen stories and planned for the later addition of eighteen more, the Bismarck is an integral part, together with an office building and a theater, of a greater structure which occupies an entire city block in the heart of the “Loop.”

The Bismarck's 492 built-in baths are of Kohler make and “Viceroy” pattern—a not undeserved tribute to the beauty and excellence of this ware, and, more particularly, to the exceptional quality and uniform, immaculate whiteness of the Kohler enamel.

KOHLER CO., *Founded 1873*, KOHLER, WIS.
Shipping Point, Sheboygan, Wis. • Branches in Principal Cities

KOHLER OF KOHLER
Plumbing Fixtures

Puzzle-

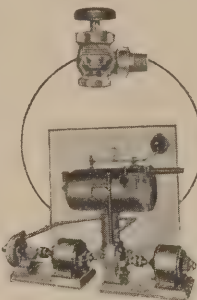
find the square dots

Calling the Roll of Trane Bellows Trap Users

New Parliament Buildings
Toronto, Canada 1125
Merchant's National Bank
Cedar Rapids, Iowa 528
Baker Office Building
Minneapolis, Minn. 527
English Apartments
Los Angeles, Calif. 430
California Medical Building
Los Angeles, Calif. 371
B. F. Stephenson Office
Building
Detroit, Mich. 315
Maria Sanford, Jr., High
School
Minneapolis, Minn. 289
Wendell Phillips, Jr., High
School
Minneapolis, Minn. 289
Louis Tsu Apartment House
Shanghai, China 259
Claremont Apartments
Seattle, Wash. 257
Mr. Holmes Apartment
Building
Detroit, Mich. 239
Cardinal Taylor Apartments
Detroit, Mich. 217
Pacific Coast Club
Los Angeles, Calif. 211

To be continued

The other two of Trane's Big Three



If the above dots were traps on the job and you were a Trouble-Shooter, how would you find the square ones?

One of the squares you would find almost without looking—but no wonder. It represents a Trane SIGNAL Trap.

To find the other square dots (and there are two more of them), you would have to hunt. They represent traps without the signal feature.

The SIGNAL feature of Trane Radiator Traps, then, is simply this:

A built-in characteristic that causes the trap to give a definite (though silent) warning if ever the thermostatic element fails.

The SIGNAL feature is the mark of a manufacturer's faith in his product. Trane gives you the best radiator trap that time, money, and experience can turn out. Trane gives you a five-year guarantee. *And Trane puts teeth in the guarantee* by designing the trap so you will always KNOW what condition the thermostatic element is in.

A trap that has this built-in signal feature is worth investigating. And particularly when the trap has a genuine Trane 14-corrugation bellows, brass body, balanced pressure, no removable seat, interchangeable element, and an operating range between 25 pounds pressure to 15 inches of vacuum. Write for the details, and also get data on Trane Bellows-Packless Valves and Trane Two-Motor Vacuum Pumps. These are the "Big Three" items in Trane's undivided responsibility line—the line of the least resistance.

HEATING TRANE PRODUCTS PUMPING

THE TRANE COMPANY, 220 Cameron Ave., La Crosse, Wis. Manufacturers of vapor and vacuum heating specialties and pumps. Branches and sales connections at New York, Chicago, Boston, Philadelphia, Buffalo, Cleveland, Detroit, Seattle, Los Angeles, Albany, Minneapolis, Salt Lake City, Ft. Wayne, Portland, Oregon, Greensboro, N. C., Zanesville, Ohio, Atlanta, Ga., Baltimore, Md., Des Moines, Iowa, New Orleans, La., New Haven, Conn. In England: 22-23 Clerkenwell Close, London, E. C. 1. In Canada: The Trane Co., 23 River St., Toronto. 2; Thomas Robertson & Co., 134 Craig St., West. Montreal; F. S. Murdoch, 310 Breadalbane, Winnipeg. In Japan: The Uchida Trading Co., Ltd., Tokio—Osaka—Kobe. In China: C. J. Doughty & Co., 7 Jinkee Road, Shanghai.

Martyn
Brothers,
Plumbing
Contractors



R. F.
Taylor,
Mechanical
Engineer

Santa Fe Building Dallas Texas

Whitson & Dale, Architects

The FORESIGHT OF THE SANTA FE

MAINTENANCE cost is the determining factor when foresighted railway executives purchase equipment. Small wonder, then, that specifications of the new Santa Fé Building at Dallas, Texas, called for Evernu Hard Rubber Toilet Seats.

Evernu hard rubber seats are impervious to acids and cleansers. They are unaffected by steam or low temperatures. Seamless and smooth, the surface offers no lodgment for dirt. The finish is simply the material of the seat buffed to a beautiful luster. The fine appearance is as deep and enduring as the hard rubber itself.

The Santa Fé will never, as long as this building stands, need toilet seat repairs or replacements. There is an Evernu model for every type of bowl, and architects may, if they wish, specify the hinge metal. Complete specifications are in Sweet's.

NEVER SPLIT SEAT COMPANY

Dept. 121, Evansville, Indiana, U. S. A.

Founded 1905

Evernu
Everlasting Hard Rubber
Seats

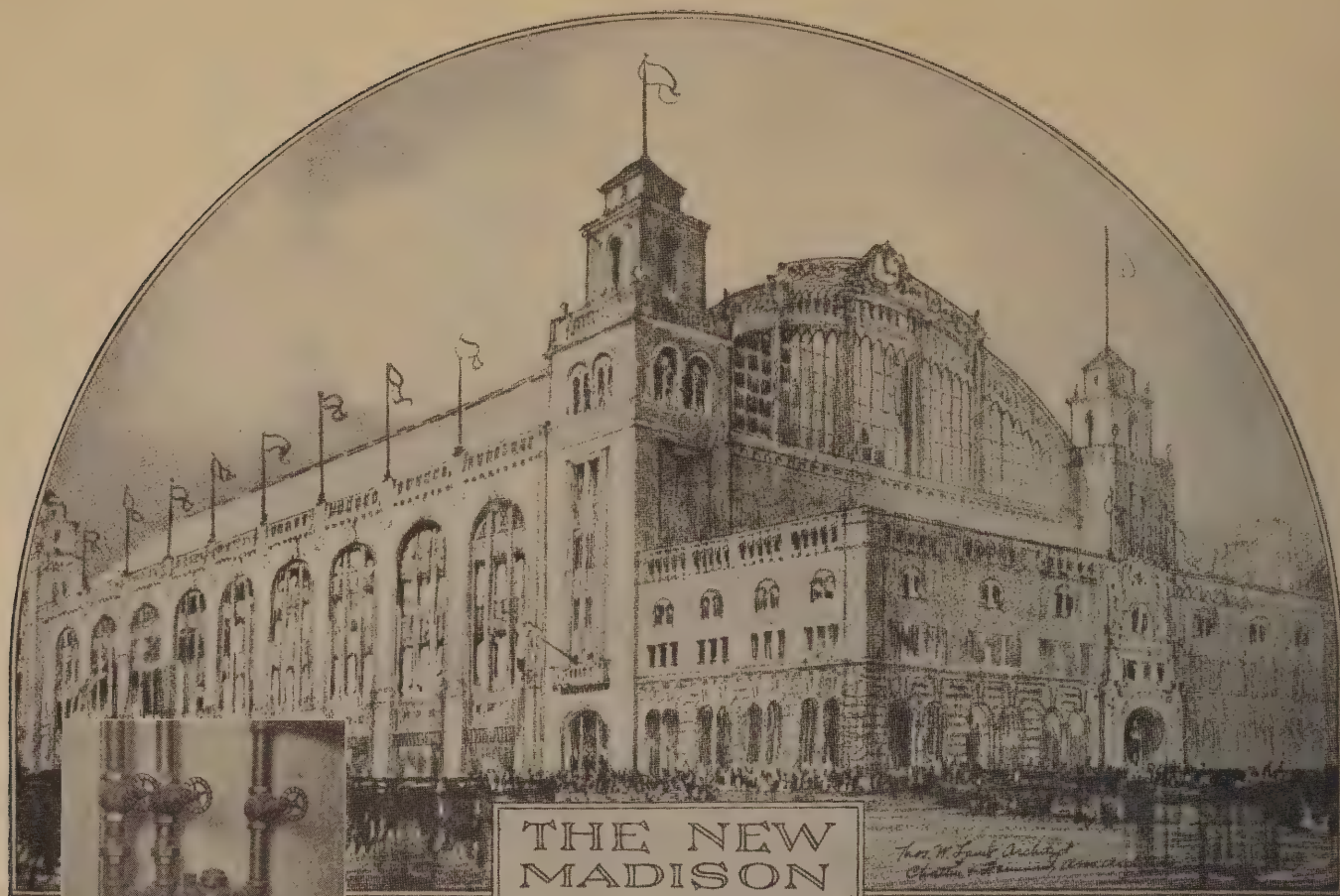
Patented



Evernu is the perfect seat. The interior wall of special hard rubber of great strength and the outside surface of solid color hard rubber are vulcanized under hydraulic pressure into one lasting piece.

No finish to wear off. No joints to open up. The hollow center provides lightness with strength. The hinge is as durable as the seat.

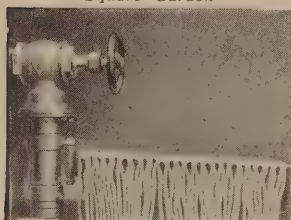
The Largest Manufacturers of Toilet Seats in the World



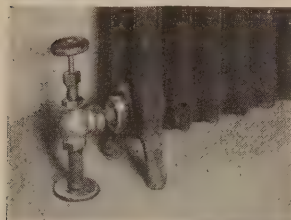
THE NEW MADISON SQUARE GARDEN

Thomas W. Lamb, Architect
James Stewart & Co., General Contractor
William Gordon Corp., Plumbing
E. C. Woolfolk & Co., Inc., Heating

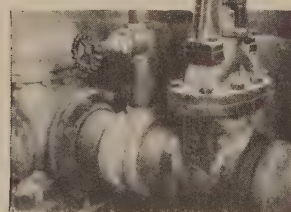
POWER PLANT—Jenkins
Bronze Globe and Check Valves
on boiler feed lines, Madison
Square Garden



FIRE PROTECTION—Jenkins
Bronze Fire Line Angle Valve



HEATING—
(above) Jenkins
Radiator Angle
Valve on Radiator,
Madison Square
Garden



PLUMBING—Jenkins Iron
Body Gate and Bronze Gate
Valve on general water supply
lines, Madison Square Garden

The "Garden" is dead; long live the "Garden"!

While the old land mark at Madison Square was being torn down, another huge Madison Square Garden was being reared at 8th Ave. and 49th St., New York City. New York was not long without its spacious indoor stadium.

The new Madison Square Garden bids fair to atone for the loss of its historic predecessor. Handsome, roomy, comfortable, its equipment in all departments measures up to the highest standards.

This equipment includes Jenkins Valves in every service—plumbing, heating, power plant, fire protection, air conditioning and other uses. The Jenkins Diamond is a guarantee of valves that will con-

tribute to the comfort, convenience, and safety of the thousands of patrons of this center of recreation and sports.

For buildings, large or small, it pays to get genuine Jenkins and to assure your clients of genuine Jenkins Valve service—long, reliable, free from frequent repairs and costly replacements.

JENKINS BROS.

80 White Street.....New York, N. Y.
524 Atlantic Avenue.....Boston, Mass.
133 No. Seventh Street...Philadelphia, Pa.
646 Washington Boulevard...Chicago, Ill.

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Always marked with the "Diamond"

Jenkins Valves

SINCE 1864



Geo. D. Mason & Co., Architects, Detroit. N. B. Hubbard, Engineer, Detroit. Pittlekow Heating & Engineering Co., Detroit.
Plumbing Contractors

The choice of Douglas Vitreous China Urinal Stalls for the stately Masonic Temple of Detroit, Mich. again indicates the sanitary preference for a urinal stall made of vitreous china.

Although Vitreous China Urinal Stalls have been manufactured only a short time, they have been accepted and specified in every state.

The reason for the immediate recognition of this new piece is the unqualified opinion that Vitreous China is the most sanitary material from which plumbing fixtures can be made.

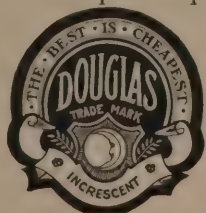
Vitreous China Water Closets and Lavatories have long been considered a standard requirement of all good building.

Douglas Vitreous China Urinal Stalls are made of the same vitreous body as their water closets and lavatories—and are full sized.

**Dimensions—Height 43 inches over all, from finished floor to top of
Urinal 39 inches, width 18 inches full.**

Guaranteed not to craze, stain or discolor. It is non-porous, so it will not absorb odors. Has a gleaming white surface, which is easily cleaned. Assuring a fixture of quality.

Upon request we will send descriptive literature and names of buildings in your vicinity where Douglas Vitreous China Urinal Stalls are being used.



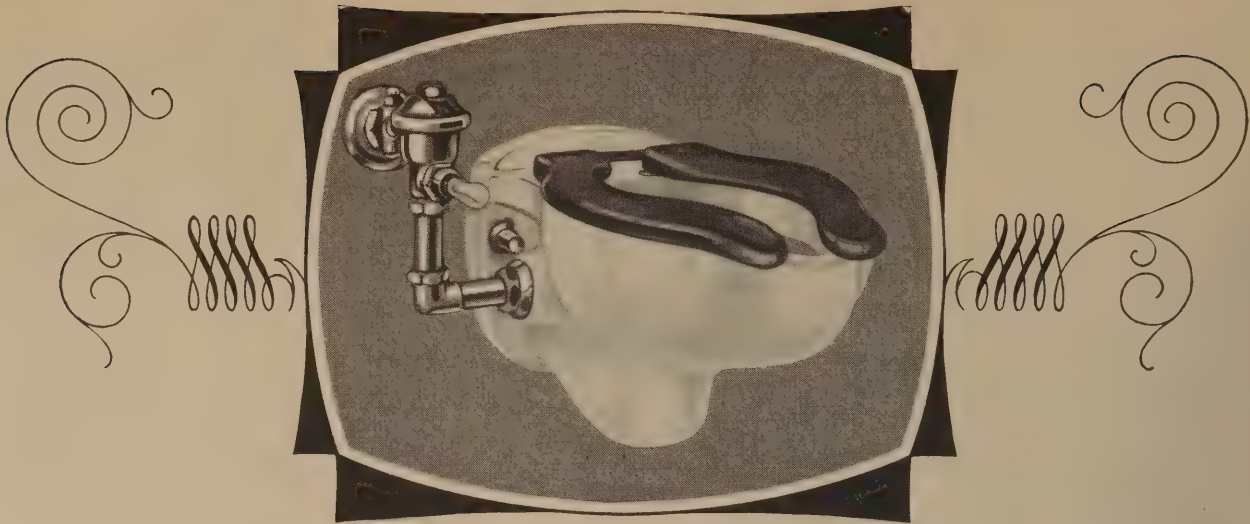
Manufactured by

The John Douglas Co.

Makers of High-Grade Plumbing Fixtures

General Office
Cincinnati, O.

Factories
Cincinnati, Ohio
Trenton, N. J.



A Word About the "Walclo"

THE advantages of the wall hung closet are so numerous that only individual preferences influence the architect's choice of make and type.

The "Walclo" is undoubtedly the highest development of this form of closet in that it provides for quick installation (i. e., economical) in a confined space—without sacrifice to either permanence or sanitation. This is effected by the Carrier devised by Tepeco for the purpose. The Tepeco Chair Carrier procures an exceptionally rigid installation without placing an ounce of strain on the walls or pipe connection.

The Carrier is built into the floor and

wall, completely covered by floor and wall finish. The Carrier plate, to which the closet is bolted, being supported on two uprights, permits ample adjustment for setting the closet any desired height from the floor.

The several types of Walclos all bear the unmistakable features of Tepeco products—i. e., the bowls and base plates are of glistening white two-fire vitreous china, impervious to wear or stains—all working parts are simple, foolproof, and exceptionally quiet in operation.

Full details of this most modern fixture are given in Catalogue R. If not in your files, write to us.

THE TRENTON POTTERIES CO.

TRENTON, N. J., U. S. A.

Boston

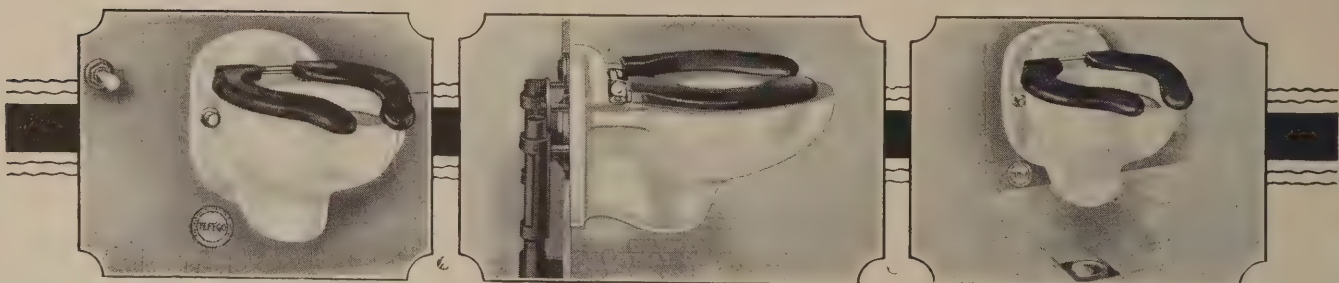
San Francisco

New York

World's Largest Makers of All-Clay Plumbing Fixtures

TEPECO Water Closets

FOR EVERY PLACE AND PURSE



—And now the Sink Fixture

Brass in Speakman sink fixtures is heavy, so is the soap dish which is on a stud instead of prongs. Handles have a ball on short end. Integral stops permit shutting off the water on either hot or cold side or regulating the flow of either. Escutcheons make up tight against back of sink. Transfer valve is sturdy—nothing to get out of order.


Speakman Sink Fixtures are made in four patterns—with and without hose and spray head and with and without soap dish.

We'll be glad to send folders on Speakman sink fixtures, also our loose-leaf catalog for your files. See Speakman shower and fixture data in Sweets Architectural Catalog 1925-1926 edition—pages 2048 to 2058 inclusive.

SPEAKMAN COMPANY

Wilmington

Delaware



SPEAKMAN SHOWERS

and FIXTURES

Reviews of Manufacturers' Publications

INDIANA LIMESTONE QUARRYMEN'S ASSN., Bedford, Ind. "Distinctive Houses Built of Indiana Limestone."

The great beauty of limestone as a building material has of course procured its use for a large number of important structures. Leaving out such buildings as churches and other structures of a more or less public character, there remain a great number of residences in city, suburbs or country, and illustrations of many of the most notable have been collected and are here presented in brochure form, along with appropriate text,—examples of the material used alone, as in the two Vanderbilt houses at Fifth Avenue and 53rd Street, by Richard M. Hunt and McKim, Mead & White, the Borden house in Chicago, or the C. Ledyard Blair residence (Carrere & Hastings), or else in combination with brick, as in the Lamont house (Walker & Gillette) or the beautiful H. L. Pratt residence by James Brite.

BONDED FLOORS CO., New York. "Distinctive Floors." An invaluable brochure on the use of rubber flooring.

The best possible proof of the value of rubber as a material for flooring is found in the wide extent to which it is used after being upon the market for only a comparatively short time. Among rubber's advantages might be mentioned its durability, its noiselessness, and the ease with which it can be kept clean. A floor laid of rubber tile is likely to be beautiful as well, lending to its surroundings an air of richness out of all proportion to its moderate cost. In this folder there is presented information regarding Gold Seal Marbleized Rubber Tile. Illustrations in color suggest the excellent combinations which may be had, and other illustrations in black and white show interiors of quite a wide variety,—residences, hotels, shops, lobbies, tea rooms, etc.,—where floors of this material lend an appearance of dignity. The wear of these floors for at least a period of five years is assured by a Guaranty Bond.

ATLANTIC TERRA COTTA CO., New York. "Atlantic Terra Cotta, Volume VIII, Number 2."

THE FORUM, in its various departments, has had frequent occasion to call attention to the value and excellence of the publications put forth in the interests of terra cotta. In this issue of a monthly magazine printed for architects, Leon V. Solon, well known for his writings on polychromy, discusses terra cotta ancient and modern, drawing for examples of the old upon the rich resources of what was made in Italy, either for use in north Italian towns or presumably for export to such far distant places as Seville, in Spain. Modern work is represented for the most part by illustrations of terra cotta details for a church in Cleveland, illustrations which show the intelligent use of what seems to be colossal scale, but so excellent in both design and technique as to prove that modern craftsmen in this medium have caught the spirit of the old workers who made so glorious the history of terra cotta.

MONARCH METAL PRODUCTS CO., St. Louis. "Monarch Metal Weather Strips." Considerable data regarding them.

Extremely high building costs and equally excessive costs of maintaining a building when it has been erected have brought about study of ways and means of reducing costs while adding to the satisfaction with which a structure may be used. This has involved an examination into the value of weather strips at windows in preventing the entrance into a building, through the crevices between the sash and the stationary trim, of cold air, dust, soot and rain, and the escape from the structure of heated air, this of course, having a direct effect upon the amount of fuel necessary for heating such air. This brochure contains the report of an inquiry into air leakage from buildings, the inquiry made by the American Society of Heating and Ventilating Engineers together with the U. S. School of Mines Experiment Station, the data, diagrams and charts making plain the result which should interest architects.

DAVEY TREE EXPERT CO., INC., Kent, O. "First Aid to Starving Trees." A valuable brochure on tree conservation.

The work of these experienced and skillful tree specialists should enlist the coöperation and sympathy of architects. They regard trees much as physicians and surgeons regard human bodies, and diagnose and treat the ailments of trees just as human ills are corrected. In this small booklet there is given certain advice which is presumably intended for the use of the laity, making possible treatment of simple ailments by owners of trees without calling in the aid of experienced tree physicians and surgeons. It describes symptoms of certain tree diseases, and suggests means for their treatment and for so strengthening trees and fortifying them that they are proof against attack from disease. The booklet also describes what might be called "home remedies" for correcting unfavorable tree conditions.

COPPER AND BRASS RESEARCH ASSN., New York. "A Real Home; Some Suggestions to Home Builders."

This brochure has been issued in the interests of copper and brass, copper for the most part used as roofing, and brass in the form of piping. Copper possesses, of course, a number of advantages for roofing, among which are its wearing qualities and the fact that it involves no maintenance cost; it requires no painting, and its first cost is the only cost. The brochure gives data regarding copper shingles, made in different shapes and styles and to be had in pre-weathered blends of copper red, verde green and copper blue, though used in its natural color the metal soon takes on the beautiful and distinctive green patina characteristic of copper. The value of brass for piping is of course well known, and the importance of using good piping should never be overlooked, since to replace or renew piping that is worn out involves the tearing out of walls, ceilings and floors, and the ruin of costly decorations.

ALUMINUM COMPANY OF AMERICA, Pittsburgh. "Aluminum Paint; A Step Ahead in Industrial Painting."

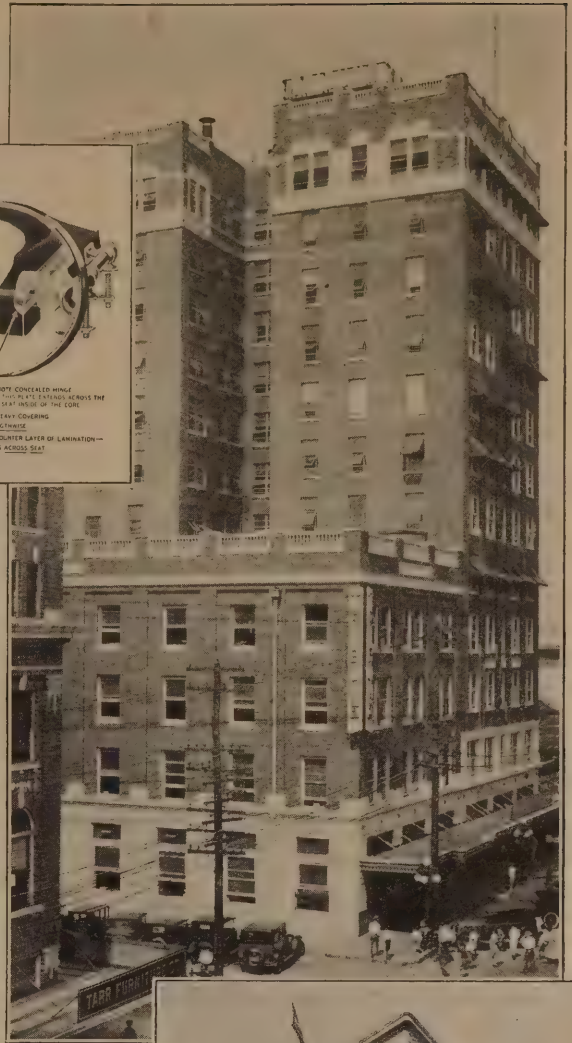
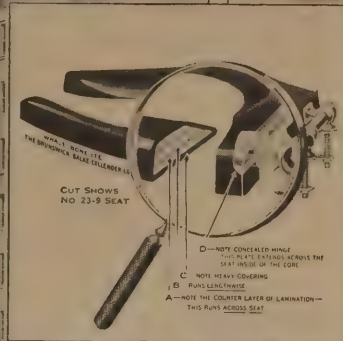
The many purposes for which aluminum paint is valuable lend particular importance to this brochure which describes its manufacture and nature as well as the uses which are being made of it. Among many such uses there are two which study of this booklet seems to suggest as especially valuable,—(1) for protecting structural steel, wood or other outdoor structures, and (2) for keeping down the temperature within any building upon which it is used. Sometimes both of these qualities are valuable for use; for example, on aircraft of different kinds, and large airships, such as the Los Angeles, are often given an outer coating of aluminum paint, partly to protect their fabrics, and partly for purposes of temperature control. Mention might also be made of the high reflectivity of aluminum paint, which may run as high as 70 per cent, and only 30 per cent absorbed. The booklet has considerable value to architects.

THE SPEAKMAN COMPANY, Wilmington, Del. "Once-Used Water." The advantages of using running water.

When an individual has once begun to bathe in water which is actually running, it is not easy to find quite the same satisfaction in that which is still. This means that use of a basin or tub filled with water is far less attractive than water running from a faucet or shower. The pleasure with which showers, particularly, are used is likely to be increased by use of what is known as the "Mixometer" which both mixes and measures the water; it measures the volume of hot water and cold, and then mixes or merges both into a stream of uniform temperature. Added zest is given to bathing when to the use of the "Mixometer" is added that of the "Anyforce Head," a device which controls and regulates the force, pressure or volume of the water. This brochure deals with the Speakman "Mixometer Shower" and the "Anyforce Head," which is included without specification in all the popular types of the shower.



Tampa Terrace
Tampa, Florida
Architects: Heintz, Reid & Adler
Equipped with Whale-Bone-Ite
23-9 Ebony



Tribune Building
Tampa, Florida
Architect: B. C. Bonfoey
Equipped with Whale-Bone-Ite 23-9 Ebony



Bank of Italy
Los Angeles, Calif.
Architects: Morgan, Wall & Morgan
Equipped with Whale-Bone-Ite 23-9 and 24-9 Ebony

Why everywhere today it's Whale-Bone-Ite

"The toilet seat of no apologies"

These 10 remarkable features are unqualifiedly guaranteed:

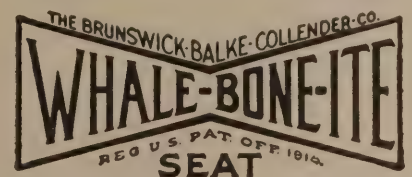
Permanent Durability	Permanent Finish	Comfortable
Easiest Cleaned	No Exposed Metal	Non-Inflammable
Acid-Proof	Sanitary	Non-Warping
One-Piece Construction		

End upkeep and bother. Equip with Whale-Bone-Ite or make your final replacement with them, now.

Ask your jobber or write direct:

Whale-Bone-Ite Division

THE BRUNSWICK-BALKE-COLLENDER CO.
623 South Wabash Avenue, Chicago, Illinois



The ebony black, or rich mahogany finish of Whale-Bone-Ite Seats affords a most pleasing contrast with the tile and trim of the bathroom or lavatory.

Reviews and Announcements

BATCHELDER-WILSON CO., Los Angeles. "Batchelder Tiles; A Catalog Showing Varieties of Handmade Tiles."

It would seem that never before has the value of tiles been more appreciated by architects and decorators,—not the highly glazed tiling, usually white, long used for the walls of bathrooms, the value of which has always been recognized, but tiles of a more decorative nature, the design, color and craftsmanship of which add architectural distinction to any surroundings in which they are used. This publication contains illustrations and descriptions of the exceedingly large line of decorative tiles manufactured by this firm,—tiles used in residences for wainscots, wall fountains, for facing the openings about fireplaces, and often used in other places such as shops where tile form the facings of counters, the floors and walls of show windows, dadoes around rooms, up stairways, and for other uses.

UNITED STATES RADIATOR CORPORATION, Detroit. "Capitol Smokeless Boilers." Their importance and value.

The great importance of boilers in heating systems of many kinds lends interest and value to publications which deal with them. This booklet, for example, one of quite a number of publications issued by this large firm of manufacturers, is devoted to describing and illustrating the "Capitol Smokeless Boiler," which in its present high state of development represents the results of sustained effort and research during more than 30 years. This boiler possesses a number of advantages, one being that it makes possible the burning of bituminous coal without smoke, and hence without the great loss of energy due to the escape of unburned gas in the form of dense, black smoke. The brochure, replete as it is with illustrations, tables and data of many kinds, is so useful that it should be in the specification files of every office and available for handy reference.

DAVID LUPTON'S SONS CO., Philadelphia. Lupton Steel Equipment for Factories, Stores and Offices.

Every business, whether it consists solely of an office, a retail store or offices, stores and warehouses, has need of shelving in some form. In a modern concern to have an up-to-the-minute organization, stock must be handled efficiently. In a store the goods must be displayed neatly and to the best advantage. In the warehouse the goods must be kept in the most systematic manner, so that they may be quickly located. For these purposes the most practical fittings for shelving, storage bins, display cases, office partitions, etc., have been found to be made of steel. In this booklet the various uses of Lupton steel fittings are described. The adaptability of this type of equipment to various forms of business is discussed in such a way that the prospective purchaser may find the exact type of equipment he can best use, and order intelligently what is needed.

C. A. DUNHAM COMPANY, Chicago. "The Dunham Handbook No. 314." A manual of valuable data on heating.

For the intelligent laying out of heating plants and the proper specifying of heating apparatus it is of the utmost importance that an architect's office be provided with complete and dependable data. It would be scarcely possible to have this data before the specification writer in a form at once more complete and more concise than in this small, closely printed manual, which apparently gives every detail, not only the charts and diagrams covering such matters as radiator pressures, radiator and inlet temperatures, etc., but also illustrations and descriptions of all the numerous parts and devices which enter into the building up of a serviceable and adequate heating system. The work indeed goes further, for in addition to aiding with the installation of the heating system it gives directions for its proper operation,—for its economical and efficient working. These pages have never made mention of a work more valuable and important to those for the use of whom it is intended.

NATIONAL STEEL FABRICS CO., Pittsburgh. "Building a Permanent Home."

It is a well known fact that concrete is one of the best building materials, but ordinary concrete is very similar to glass in its brittleness and liability to crack. In this booklet practically all of the ordinary uses of concrete are discussed, and a method by which concrete may be made many times more durable is shown. This is by the use of metal re-enforcement, which when added to the wearing qualities of concrete gives the combination a great permanence. This metal re-enforcement is made in many different forms, each especially adapted to a specific purpose. These different forms are described and their uses given, so that the architect may be very easily shown which type is best adapted to the purpose he has in mind. A very instructive brochure also for the home builder who has permanence in mind.

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Mahood & Van Dusen, of Bluefield, W. Va., announce the opening of a branch office in the Bass Arcade Building, Orlando, Fla.

Clarence T. Myers announces a change of address from 412 Penway Building to 147 East Market Street, Indianapolis. Publications and Catalogs of Manufacturers desired.

C. Walter Bellows announces a change of address from 20 East Gay Street, Columbus, Ohio, to Magnolia Arcade Building, St. Petersburg, Fla.

Washington J. Miller announces a change of address from 417 Market Street, San Francisco, to 337 Seventeenth Street, Oakland, California.

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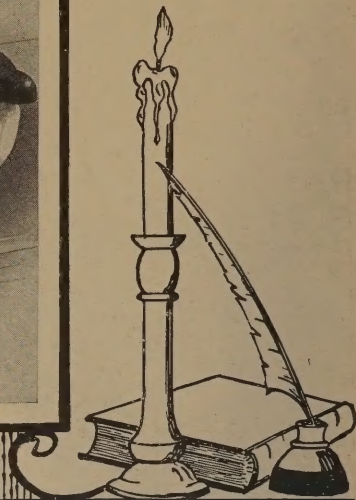
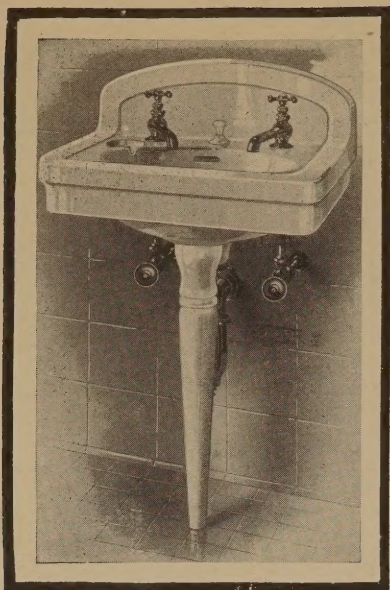
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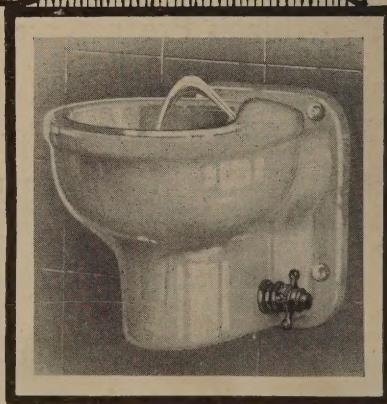
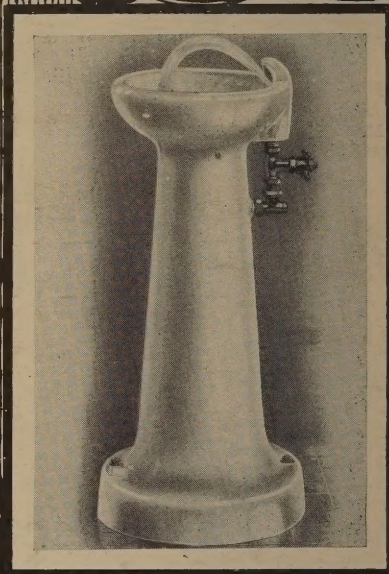
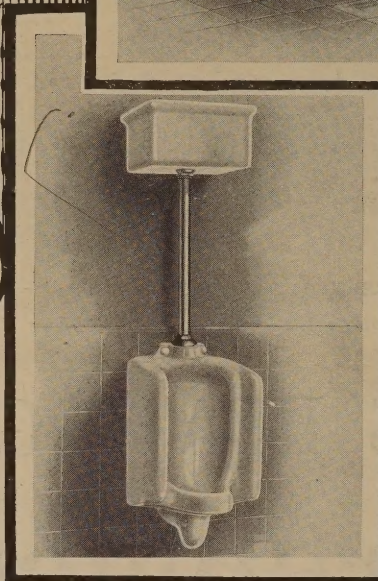
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